

# MarkeTips

Volume 22, Number 2  
March/April 2009

## *Our Environmental Legacy*

### **Anatomy of a Green Building**

Explore the Latest Technologies

### **Lady Bird Johnson**

The Life and Passion of an Environmental Pioneer

**Join us in San Antonio for GSA Expo 2009!**

**Expo Details  
Inside!**

inside this issue



## Our Environmental Legacy

As the stewards of this planet, we must ensure that we act responsibly for future generations. Our actions today will shape the lives of our children and the life of our planet. GSA's role in environmental stewardship is two fold. First, as the agency responsible for building and managing federal properties across the nation, GSA works to ensure that environmentally sound materials, policies, and programs are utilized to the fullest extent in our approach to design, construction, and management of federal facilities. From energy and water conservation to green building practices, GSA is committed to environmental stewardship.

Second, in our role to serve our customers, GSA offers a wide variety of solutions that enable agencies to achieve their environmental goals. From regulatory compliance and environmental planning to green purchasing and conservation, GSA's environmental solutions allow agencies to take full advantage of green alternatives.

Customers can access these resources in a variety of ways. Browse through this special issue of *MarkeTips* to learn more, or visit our Web site at [www.gsa.gov](http://www.gsa.gov) for more information.

Sincerely,

A handwritten signature in dark ink that reads "James A. Williams". The signature is fluid and cursive, with the first name "James" being the most prominent.

Jim A. Williams  
Commissioner, Federal Acquisition Service



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U.S. General Services Administration

# MarkeTips

One Country. One Mission. One Source.

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# Our Environmental Legacy

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# ***GSA Expo 2009 – Helping Agencies Achieve Excellence***

**GSA is hosting the fifteenth annual International Products and Services Expo June 9-11, 2009, in San Antonio, Texas.** This free training conference and vendor exposition is specifically designed to benefit federal, state and local government employees and military members who make or influence procurement decisions. Our training has been specially designed to meet the needs of new or experienced acquisition professionals and first time or experienced program managers, as well as executives.



For up to date information,  
visit the Expo Web site:  
**[expo.gsa.gov](http://expo.gsa.gov)**  
or call (888) 272-5565



**FREE** for all federal, state and local government employees and military members

**CLP-Certified Training ★ Networking ★ GSA Contract Vendor Exhibits**

# Expo 2009 Training Tracks:

The Expo training program has been developed to support the needs of the new or experienced acquisition professional or program managers, as well as executives involved in acquiring or managing their agency's resources. **GSA Expo 2009** provides many new training tracks with topics designed to *Help Agencies Achieve Excellence*.

- Training by federal program experts.
- Exhibits by vendors under GSA contract.
- Networking opportunities with a multitude of agency professionals.
- Complimentary meeting spaces for federal agencies.



## **\*\*NEW\*\* Acquisition Skills – Core Competency for Certification**

exclusively offers CLP-certified courses to meet your acquisition training requirements under DAWIA and Clinger-Cohen. Class sessions include, but aren't limited to:

- Performance Based Acquisition
- Negotiating with Confidence to Meet Agency Needs
- Managing Cost, Schedule and Performance – Why and How
- Ethics: Know the Rules of the Road
- Creative Negotiation Techniques for Contracting Officers ... and more!

**\*\*NEW\*\* Acquisition Essentials – Trends & Insight** spotlights best practices and innovations in the professional procurement arena, including the latest 'hot topics' in the acquisition community; award-winning acquisition practices; small business contracting and examples of agency best practices in acquisition.



## **\*\*NEW\*\* Workforce Development – Maintaining Your Competitive Edge**

focuses on courses to enhance your skills, abilities and knowledge in your work activities, allowing you to take charge of the development of your own learning and career. Topics will focus on career and professional development.

# Get the latest in training information at: **expo.gsa.gov**

**Products & Services You Need** showcases GSA Solutions that help make your job easier and more efficient. Class sessions include, but aren't limited to:

- Technical, Engineering and Environmental Services
- Facilities Management and Logistics
- Program Management, Consulting and Business Services
- Financial Services
- Security
- Environmental and Energy Management Services
- Integrated Workplace Furniture and Equipment
- Information Technology



**\*\*NEW\*\* Leveraging the Power of the Internet – Streamlining Your Buying Experience** provides training on GSA eTools plus DOD EMALL and how to use them to simplify a transaction.

**\*\*NEW\*\* Procurement Methods to Meet Your Needs** covers acquisition methods available through GSA and how to use them to obtain best value for your agency dollar.



**\*\*NEW\*\* Strategic Programs & Initiatives – Helping Your Agency Achieve Executive Priorities** highlights environmental programs, products and services, as well as state and local government initiatives plus hot topics like emergency response and how GSA can help.

**We look forward to Helping Your Agency Achieve Excellence at Expo 2009! Our training is designed specifically for professional growth through advanced learning and continuing education.**

# 2009 GSA Expo Tentative Schedule

## Monday, June 8

### *Early Registration*

Customer Agency Meetings	9 a.m. – 4 p.m.
Exhibitor Set-Up	1 p.m. – 5 p.m.
Customer Registration	1 p.m. – 4 p.m.
Ice Cream Social	1 p.m. – 4 p.m.

## Tuesday, June 9

### *Training*

Exhibitor Set-Up & Registration	7 a.m. – 5 p.m.
Customer Registration	7 a.m. – 4 p.m.
Training Sessions & Meetings	9 a.m. – 11:45 a.m.
Complimentary Lunch	11:30 a.m. – 1 p.m.
Training Sessions & Meetings	1 p.m. – 4 p.m.
Welcome Reception	4 p.m. – 7:30 p.m.

## Wednesday, June 10

### *Exhibit Hall & Training*

Registration	7 a.m. – 3 p.m.
Opening Ceremony	8:30 a.m.
Exhibits Open	8:30 a.m. – 4 p.m.
Complimentary Lunch	11:30 a.m. – 1 p.m.
Training Sessions	1 p.m. – 4 p.m.

## Thursday, June 11

### *Exhibit Hall & Training*

Registration	7 a.m. – 11 a.m.
Early Bird Training	8 a.m. – 9:15 a.m.
Exhibits Open	8:30 a.m. – 2 p.m.
Complimentary Lunch	11:30 a.m. – 1 p.m.
Training Sessions	1 p.m. – 4 p.m.
Customer Agency Meetings	2 p.m. – 4 p.m.
Expo Conclusion	4 p.m.



# GSA – Helping Agencies Achieve **GREEN EXCELLENCE**

At GSA, we're committed to our customers and to the environment. We offer many environmental solutions to help **Reduce, Reuse, and Recycle**.

What GSA offers you:

- **Green products and services**
- **Recycling and property disposal programs**
- **GSA-sponsored telework centers**
- **Operating and leasing green buildings**
- **Buying and leasing options for green vehicles**
- **Environmental training classes at Expo!**

For more information on how **GSA** is committed to helping federal agencies go green visit: [www.gsa.gov/green](http://www.gsa.gov/green)



## **BioPreferred<sup>SM</sup> Showcase & Training**

Learn more about green procurement and biobased products at the 2nd annual BioPreferred<sup>SM</sup> Showcase & Training, June 8-11, in conjunction with the GSA Expo. Visit with manufacturers and vendors at the BioPreferred<sup>SM</sup> Showcase, June 8-9, to see biobased products designated for preferred procurement on display, and increase your knowledge about greening your agency's programs during the BioPreferred<sup>SM</sup> training sessions covering a host of green-procurement topics. BioPreferred<sup>SM</sup> is a federal program for the procurement and labeling of biobased products.

## **Recognition and Reflection of Acquisition Professionals**

Annually, the Office of Management and Budget (OMB), Office of Federal Procurement Policy (OFPP) and the Chief Acquisition Officer's Council (CAOC) co-sponsor the Chief Acquisition Officer's Council Award, recognizing excellence in acquisition management. This year, the CAOC Award will be presented during the GSA EXPO. This award highlights acquisition excellence including innovative delivery projects and the promotion of professional development initiatives. Please join us in recognizing THESE acquisition innovators for 2009.



# Anatomy of a Green Facility

In today's building management environment, green facilities, also known as high performance or sustainable facilities, are becoming more prevalent.

Whether the project is to design and build from the ground up or to more effectively manage an existing facility, reducing environmental impact in today's built environment is of paramount importance.







Green building is the practice of creating structures and using processes that are environmentally responsible and resource-efficient throughout a building's life-cycle from siting to design, construction, operation, maintenance, renovation, and deconstruction. This practice expands and complements the classical building design concerns of economy, utility, durability, and comfort.

Within the built environment, there are four areas of consumption, **energy, water, materials, and natural resources** that can, when improperly managed, have negative effects on the environment and ultimately on humans. Effects such as waste accumulation, air pollution, water pollution, indoor pollution, heat islands, storm water runoff, and noise can cause harm to human health, environmental degradation, and loss of resources.

Green buildings are designed to reduce the overall impact of the built environment on human health and the natural environment by efficiently using energy, water, and other resources, protecting occupant health and improving employee productivity, and reducing waste, pollution, and environmental degradation.

For example, green buildings may incorporate sustainable materials in their construction such as reused and recycled-content, or those made from renewable resources, they can create healthy indoor environments with minimal pollutants such as reduced product emissions and may feature landscaping that reduces water usage by using native plants that do not require additional watering.

## From the Ground Up

GSA helps customer agencies meet Leadership in Energy and Environmental Design (LEED®) requirements. All GSA new construction projects and substantial renovations must be certified through the LEED® Green Building Rating System of the U.S. Green Building Council. Projects are encouraged to exceed basic LEED® green building certification and achieve the LEED® Silver level. LEED® consists of a set of prerequisites and credits with specific requirements for obtaining points in order to become a certified green building. Every facility has core areas that can be optimized for sustainability, whether it is new construction or existing property.

## Why Build Green?

In the United States, buildings account for:

- 39 percent of total energy use
- 12 percent of the total water consumption
- 68 percent of total electricity consumption
- 38 percent of the carbon dioxide emissions

The built environment has a vast impact on the natural environment, human health, and the economy. By adopting green building strategies, economic and environmental performance can be maximized. Green construction methods can be integrated into buildings at any stage, from design and construction, to renovation and deconstruction. Environmental concerns may lessen if the economy is not healthy. It is important to remember that buying green will ultimately save money and improve efficiency. The most significant benefits can be obtained if the design and construction team takes an integrated approach from the earliest stages of a building project. Potential benefits of a green building can be realized in environmental, economic, and social terms.

## Environmental Benefits

- Enhancement and protection of biodiversity and ecosystems
- Air and water quality improvement
- Waste stream reduction
- Restoration and conservation of natural resources

## Economic Benefits

- Lower operating costs
- Expansion of markets for green products and services
- Improved occupant productivity
- Optimized life-cycle economic performance

## Social Benefits

- Enhancement of occupant comfort and health
- Heightened aesthetic qualities
- Lessened strain on local infrastructure
- Improved overall quality of life

## Energy

Saving energy and improving energy efficiency is the cornerstone of any green facility. There are many ways that agencies can maximize their energy savings from using green alternatives to working within the existing infrastructure to achieve greater efficiency. Some green technologies are explored below followed by other alternatives organizations can take advantage of to lower energy usage and cost.



Courtesy of EPA



GSA's Schedule 56, Buildings and Building Materials, offers an array of green options from HVAC services to construction and building materials. For more information, visit us at [www.gsa.gov/elibrary](http://www.gsa.gov/elibrary).

For new construction, the most critical design element to maximize energy efficiency is orientation of the building. By orienting the building to the south and creating a significant southern exposure, passive solar technology can realize considerable savings. Passive solar technologies are means of using sunlight for useful energy without use of active mechanical systems. Such technologies convert sunlight into usable heat, cause air-movement for ventilating, or store heat for future consumption with little use of other energy sources.

*Passive solar systems* have virtually no operating costs, often have low maintenance costs, and emit no greenhouse gases while in operation. Basic energy conservation techniques are applied to the building first to yield best performance and economy. Passive solar technologies, when combined with active solar technologies or photovoltaics, work well together to create maximum efficiency.

*Daylighting* is another design strategy that can be used to limit the amount of energy used to light the facility. Strategic placement of windows and skylights combined with thoughtful design to maximize these resources can result in a reduced need for electric lighting and create significant reductions in energy use for green facilities. At the same time, the strategic use of windows and skylights enhances the sense of spaciousness and

connection with the outdoors, making the space more pleasing for occupants.

*Geothermal heating and cooling* is a green alternative to reduce energy consumption for facilities by utilizing the constant temperature underground. Because the ground temperature just below the earth surface remains relatively constant, geothermal systems can utilize this energy through the use of an exchange methodology. The system pulls heat out of the ground in the winter and deposits heat into the ground in the summer to regulate building temperature. Geothermal systems can not only be utilized for new construction, but can also be installed in existing facilities.

Agencies and organizations can take advantage of these and other energy saving strategies through GSA's Energy Management Services offering on Multiple Award Schedule 03FAC - Facilities Maintenance and Management. GSA's Multiple Award Schedule program offers agencies a convenient and cost effective way to handle your Energy Management needs.

The Schedule offers a broad spectrum of services from resources and analytical tools for energy efficiency to training on green technology. The GSA's Special Item Numbers (SINs) and description of services follow.





#### **SIN 871 202 – Energy Management Planning and Strategies**

This SIN provides customers with a Comprehensive Energy Management Solution consisting of all four phases of an energy project. The same solution could also be utilized for a variety of related projects such as renewable energy, sustainable energy, and energy efficient buildings certification programs such as LEED®. This four phased approach includes the following services:

##### **1. Consulting/Auditing/Energy Management Solutions**

Strategic planning, energy assessments such as feasibility, vulnerability and other detailed assessments, developing and executing of energy audits, audit plans, and energy management solutions.

##### **2. Concept Development and Requirements Analysis**

Analysis of audit results and outlined requirements to design a detailed energy management project concept.

##### **3. Implementation and Change Management**

Implementation and integration of more energy efficient practices and systems. Also includes training for using new systems effectively.

##### **4. Measurement and Verification**

Performance assessment and measurement of the effectiveness and energy efficiency of the project that includes long-term monitoring, verification of savings, and benchmarking.

#### **SIN 871 203 – Training on Energy Management**

This SIN includes reducing energy consumption, mitigating risk with energy systems, operating systems with maximum efficiency, making energy efficient system choices, and energy efficient buildings certification programs such as LEED®.

#### **SIN 871 204 – Metering Services**

Installation of metering equipment and software used for the collection of data and measurement of energy consumption through electric, gas, water, or steam utilities. Also includes the utilization of data to ensure energy conservation goals are being met and allows for the measurement and tracking of the cost effectiveness of energy technology investments. This could include basic metering services, advanced metering services, maintenance, installation, removal, and disposal of new or existing equipment. Security clearances such as HSPD-12 may be required.

#### **SIN 871 205 – Energy Program Support Services**

Billing and management oversight and assistance in preparing energy services related agency statements of work. Energy efficient buildings certification programs such as LEED® may be included.

#### **SIN 871 206 – Building Commissioning Services**

Comprehensive building commissioning services on new construction, major modernization projects, and existing energy consuming buildings and facilities designed to ensure the building systems are designed and built to operate as efficiently as possible. This includes re-commissioning and retro-commissioning services. Energy efficient buildings certification programs such as LEED® may be included.

#### **SIN 871 207 – Energy Audit Services**

Develop, execute, and report on audit plans and perform energy and water audit services. Energy audits may range from cursory to comprehensive, including data collection, data analysis, benchmarking with tools such as Energy Star guidelines, and written recommendations of suggested

upgrades of electrical and mechanical infrastructure. Also included is the impact on energy consumption and pollution and may also include recommendations for using alternative Energy Sources. Energy efficient buildings certification programs such as LEED® are also within scope.

#### **SIN 871 208 – Resource Efficiency Management (REM)**

Contractor provides information on possible steps that will improve energy efficiency. This information includes estimates of cost savings and environmental benefits. Onsite analysis of current operations, equipment, and energy purchasing patterns are offered. Resource efficiency advocates may be provided for individual or aggregated building(s) in order to maximize resource efficiency. Energy efficient buildings certification programs such as LEED® may be included.

#### **SIN 871 209 – Innovations in Energy**

Get innovative approaches to renewable and/or sustainable energy, sustainability services, and energy management technology and services. These might include new



developments or improvements in providing renewable energy and managing energy through biomass conversion, solar energy, fuel cells, geothermal energy, hydropower (tidal power, wave power, tidal stream power, waterwheels, and hydro electricity), wind power, or other sources. These approaches should be capable of providing renewable and/or sustainable energy and sustainability services that are more “carbon-neutral”, thereby lessening dependence on traditional, non-renewable “fossil fuel” sources of energy such as coal, oil, natural gas, and propane.

Also includes sustainability and carbon management solutions such as analysis, foot printing, measuring, mitigation, verification and management, training on new energy technologies and systems, life-cycle costing, and maintenance and operational support of renewable energy systems; and the implementation, testing, and evaluation

of networked energy management systems and services that utilize Internet Protocol - Next Generation (IPv6) enabled systems that are configured using open standards architecture that can include Power over Ethernet (POE) implementation, wireless configurations, data security using IPSEC or 128 DES Encryption standards, high reliability, NIST compliant, and demonstrated energy efficiencies or cost savings, and are capable of integrating with existing information systems data infrastructure and backbone.

#### **SIN 871 210 – Water Conservation**

Services and consulting related to the reduction of water usage, recycling of water for multiple purposes, retention of water, improvement of water quality, and water flow. Services such as facility water audits, water balance, and water system analysis are available.





## Energy Center of Expertise

GSA, through the Energy Center of Expertise, reduces federal utility costs by promoting optimal energy use. Resources are offered to all federal agencies and non-profit organizations.

GSA brings value to organizations by offering strategic energy management programs that result in increased net operating income and enhanced asset value of real properties.

Customers can look to GSA to procure utilities that are both cost-effective and environmentally responsible. GSA also partners with investor-owned utility companies, national

associations, and non-profit environmental organizations to disseminate information on energy related issues. To facilitate the mission, customers can access our Web site at

**[www.gsa.gov/energycenterofexpertise](http://www.gsa.gov/energycenterofexpertise).**

The Web site provides:

- Area-wide contracts for the procurement of utilities and for the acquisition of value-added services such as utility financing of energy conservation projects;
- Aggregate purchasing of natural gas and electricity in deregulated markets;
- Energy usage and analysis data;



- Advocacy in the public policy arena to include renewable power sources as part of our energy portfolio; and
- Program advocacy on a national level with OMB, Congress, and other federal agencies.

The Public Utilities program is a multi-disciplinary team whose mission is to provide leadership within the federal government with regard to developing contracting vehicles that enable customers to procure utility services at the lowest cost to the taxpayer and the greatest value to American citizens. Its services cover the procurement of electricity, natural gas, water, and sewage services. Current emphasis is on the positioning of the government to take advantage of potential cost savings which may be possible upon the restructuring of the electric industry initiatives which are currently underway at the state and federal level.

The Natural Gas Acquisition program is a new program specializing in providing federal facilities with natural gas supply and supply management. Utilities specialists monitor energy resource needs on behalf of its federal customers. They manage and guide facilities through each phase, including:

- Negotiating for the best transportation rate with local gas companies;
- Administering energy supply procurements; and
- Validating the invoices from local gas distribution companies and gas suppliers.

The Energy and Water Management program is responsible for the utility use and cost data in all GSA buildings nationwide. The staff reviews and processes approximately 5,500 utility bills monthly, the total cost of which is over \$250,000,000 annually.

## Water

Clean water has long been regarded as an inexhaustible and inexpensive resource. However, events such as the severe 1999 drought in the Northeastern United States emphasized that water is not something to be taken for granted. It is better to use what we have more efficiently than to seek out new sources of supply or build more wastewater facilities. In fact, some analysts are calling fresh, potable water the commodity of the next century. Wise use of this precious resource ensures that clean water supplies will be available for future generations. Also, by reducing our water consumption, we in turn reduce the energy needed to treat, heat, and cool water. Less energy required means fewer emissions from power plants and greater pollution prevention.





Commercial buildings possess huge potential for water savings. If designed from the ground up, water conservation can be maximized and is most cost-effective when a building's plumbing, mechanical, fire safety, and landscaping systems are designed with conservation in mind. An effective design strategy is to create multiple uses for each gallon of water: potable water can be used for drinking, hygiene, and health; recaptured water can be used for toilet flushing, boiler and cooling tower makeup as well as landscape irrigation. For long-term savings, it is beneficial to measure water use as part of on-going building operations and to identify near-term improvements in fixture, circulation, and wastewater management design.

Saving water does not have to require a lot of time or money. Seemingly small water management improvements can also lead to significant dollar savings. Just fixing a leaking faucet can save 36 gallons of water per day. Replacing that same

faucet with an automatic shutoff control that delivers a limited flow of water for a limited time can save about 5,000 gallons of water and reduce a water bill by roughly \$50 per year. Savings dramatically multiply when they are expanded beyond a single building. For example, the Boston metropolitan area reduced its water use by 16 percent through a comprehensive retrofit, water audit, leak detection, and education program.

Successful water management also benefits from a holistic approach, one that not only considers the technical side, such as installing efficient fixtures and making operation and maintenance modifications, but also the human side, such as changing longstanding behaviors and expectations. It also requires that facility managers look at managing water use so that they comply with the law, make cost-effective decisions, and can document their environmental savings.

### **Specific options for further reducing water use and cost:**

**More efficient fixtures** are now available for water closets that use only 1.2 gallons or less per flush, which is 20 percent less than what is required by the National Energy Policy Act of 1992. Other water-saving options include faucet aerators in sinks and low-flow showerheads in buildings where showers are provided (typically those that have in-house exercise facilities or on-site bicycle parking).

**Waterless urinals** are gaining popularity. Code approval for waterless urinals is increasing, as is their commercial viability. They use a trap liquid with a lower specific gravity than urine, allowing waste to pass through while maintaining a constant trap seal. No water is required and there is no odor. Waterless urinals are becoming common in institutional settings, such as elementary and secondary schools, as well as campus situations, including corporate headquarters. They are easy to maintain and reduce problems associated with stuck valves and accidental or intentional flooding.

**Gray water reuse** from sinks, kitchens and food service locations can be used for toilet and urinal flushing, cooling tower or boiler makeup water, landscaping and on-site water storage for fire fighting. Such systems require dual piping to route the gray water as well as appropriate valves, filters, and signage. Plumbing codes differ widely among jurisdictions as to the acceptability of such approaches.

**Electric instantaneous hot water heaters** used in areas where electricity is less than \$0.06 per kilowatt-hour. “On-demand” electric water heaters placed under lavatories can deliver cost-effective water and energy savings.

**Rainwater reuse.** In wetter climates, it may be possible to pipe roof drains directly to a storage tank in the building and use that water in the same manner as gray water. Capturing 36 inches of rain per year from a 20,000-square-foot roof would yield 60,000 cubic feet of rainwater, for annual savings of nearly 450,000 gallons.

**Water-efficient landscaping** can be used.

Landscape architects and designers can specify native plantings, which use no water after becoming established, as well as drip irrigation and other low-water-using systems.

**Cooling Towers** and sub-metering can reduce sewer charges by eliminating charges for water lost to evaporation.



## Factors Affecting a Building's Water Consumption

### Building Design

Water use is greatly affected by the type of building, its characteristics, and the type of site on which it is located. The water demand of a warehouse, for example, is markedly different from that of an office building.

Building design is a key determinant of both energy and water consumption. The building's envelope or shell (walls, ceilings, and floors), heating, ventilating, and air-conditioning systems, and lighting design determine indoor humidity and comfort, all of which have a direct and indirect impact on water use. Likewise, the number and conservation potential of water fixtures (for example, toilets, urinals, faucets, and showers) have a direct effect on water use, as does the building's amount of landscaped area. In many cases, occupancy and use are better predictors of water consumption than building size.

Warehouses and office buildings of the same square footage generally have different designs, occupancy, and functions which lead to differences in water consumption. The average GSA warehouse consumes only one-third the water of the average office building but contains more than 2.5 times the floor space. This is because a greater percentage of space in the warehouse is used solely for storage—meaning that there is less space that needs to be conditioned and fewer people in the building to use water.

### Climate and Geography

Climate and geography have major effects on water use, from stimulating the need for air-conditioning in the summer and requiring heat in the winter to determining how drought resistant shrubs and turf may be used for landscaping the building grounds. For new construction, to maximize water efficiency, facility architects should consider geography when planning a building's design and landscaping. All other employee factors being equal, the warmer or more arid the climate and participation geography, the greater the water use. The importance of employee participation in water conservation efforts cannot be overemphasized: the best technologies in the world won't work unless people use them, and use them correctly. Let people know that their efforts are helping to save water, which technologies are being used, and why. Communicate successes. And remember: some of the simplest ways to save water don't require any technology at all, but rather a change in longstanding behavior. Ceilings and floors, heating, ventilating, air-conditioning systems, and lighting design determine indoor humidity and comfort, all of which have a direct and indirect impact on water use. Likewise, the number and conservation potential of water fixtures (for example, toilets, urinals, faucets, and showers) have a direct effect on water use, as does the building's amount of landscaped area.

Developing a successful Water Management Plan involves a number of basic steps:

- Determine your baseline water use
- Explore and evaluate water management options
- Conduct life-cycle cost analyses and explore financing options
- Develop a water management plan and a work schedule
- Inform building occupants about water management
- Implement the water management plan
- Monitor the water management program

## LEED® Green Building Rating System

Water conservation strategies in commercial buildings may earn LEED® rating points as follows:

- Innovative wastewater technologies: One point for reducing sewage flow by 50 percent or for treating all wastewater onsite to tertiary standards, typically through a biological (“living machine”) system.
- Non-landscaping water use (sanitary fixtures and HVAC equipment): One point for a 20-percent reduction; a second point for an additional 10-percent reduction.
- Water-efficient landscaping: One point for reducing potable water consumption for irrigation by 50 percent through high-efficiency irrigation technology or by using captured rain water or recycled site water; a second point for reducing potable water consumption for irrigation by an additional 50 percent.

## Go Green – Save Green

Let GSA's Financial and Business Planning (FABS) Schedule Help Your Agency Go Green!

Today, federal agencies operate in a dramatically changed environment. They allocate resources more carefully, deliver innovative services more quickly, and communicate performance to constituents more regularly. This environment presents federal government managers with distinct challenges—and opportunities... schedule programs like GSA's can help federal managers take swift action to meet the challenges and capitalize on the opportunities.

**GSA contractors on FABS can help your agency develop a cost analysis of implementing green strategies, and determine the most cost effective way to go green. For more information, visit our Web site at [www.gsa.gov/fabs](http://www.gsa.gov/fabs).**

GSA's Multiple Award Schedule program offers agencies a convenient and cost effective way to handle your agencies requirement for environmental services. Schedule 899, Environmental Services, assists agencies in complying with environmental initiatives and meeting goals through contractors offering a wide range of services.

Such services include the following:

**SIN 899-1 – Environmental Planning Services & Documentation**

- Environmental consulting that includes the development, planning, facilitation coordination, and documentation for initiatives in areas of chemical, biological, radiological, and/or hazardous material services
- Environmental Assessments and Environmental Impact Statements under the National Environmental Policy Act (NEPA)
- Endangered species, wetlands, watersheds and other natural resource management plans
- Archeological and/or cultural resource management plans
- Environmental program and project management and environmental regulation development
- Economic, technical and/or risk analysis; and, other environmentally related studies and/or consultations. Homeland Security issues including vulnerability assessments, biochemical

protection, identification of threats, and protective measures to mitigate the threats and Crime Prevention through Environmental Design (CPTED) surveys.

**SIN 899-2 – Environmental Compliance Services**

Environmental compliance audits; compliance management and/or contingency planning; permitting; spill prevention/control and countermeasure plans; pollution prevention surveys; ISO 14000/Environmental Management Systems (EMS); and Community-Right to-Know Act reporting.

**SIN 899-3 – Environmental Occupational Training Services**

Training includes standard, customized, or computer-based interactive courses as well as converting existing courses to electronic media. Training may be conducted on- or off-site and may be on any number of environmentally related issues, including fire preparedness training and public fire safety education.





#### **SIN 899-4 – Waste Management Services**

Operational services, advice, or guidance in support of agencies' Waste Management Services.

Includes data collection, feasibility or risk analysis, RCRA/CERCLA site investigation, hazard and/or non-hazard exposure assessments, waste characterization and source reduction studies, review and recommendation of waste tracking or handling systems, waste management plans and/or surveys, waste minimization/pollution prevention initiatives, review of technologies and processes impacting waste management, furnishing or inventory of material safety data via CD, internet, facsimile, mail, or other media; and development of emergency response plans.

**SIN 899-5 – Reclamation, Recycling, and Disposal Services**  
Establishment and/or operation of waste management and/or recycling systems to include waste collection, reuse assessments, inventory, destruction, inventory transfer and/or disposal after compliance with federal regulations.

- Excess inventory;
- Surplus inventory;
- Management and oversight of HazMat disposal operations;
- Confiscated materials;
- Electronic equipment;
- Batteries;
- Chemicals;
- Solids;
- Biological matter;

- Cathode Ray Tubes (CRTs); and
- Waste Minimization/Pollution Prevention initiatives.

#### **899-6 – Environmental Advisory Services**

Contractors offer ongoing advice and assistance with data and information support of agency environmental programs involving areas such as hazardous material spills, Material Safety Data Sheets (MSDS), information hotlines, poison control hotlines, environmental regulations, biological and medical data sheets and environmental policy and procedure updates.

#### **SIN 899-7 – Geographic Information Services (GIS)**

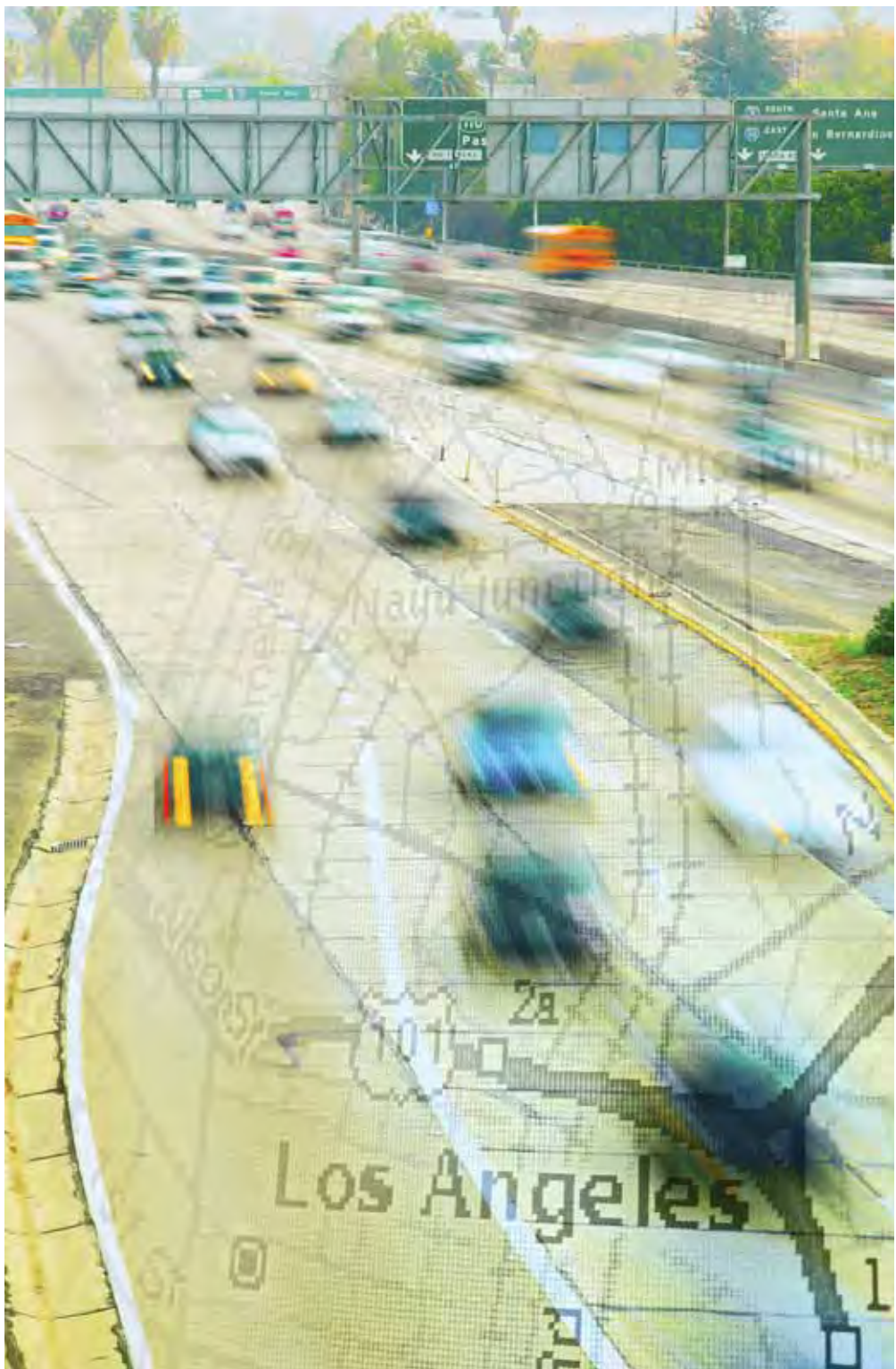
Operational services, advice, or guidance in support of agencies' environmental programs utilizing Geographic Information Services.

- Mapping and cartography, natural resource planning, site selection, migration pattern analysis, pollution analysis, and emergency preparedness planning.
- Provide services to support geologic logs, topographic data, 3D/4D interactive visualization packages, and data interpretation.

SIN 899-8 – Remediation Services:

- Excavation, removal, and disposal of hazardous waste
- Remediation-related laboratory testing
- Site preparation characterization, field investigation, conservation, and closures
- Wetland restoration
- Emergency response clean up
- UST/AST removal
- Air monitoring
- Soil vapor extraction
- Stabilization/solidification
- Bio-venting
- Carbon absorption
- Reactive walls
- Containment
- Monitoring and/or reduction of hazardous waste sites as well as unexploded ordnance removal

For more information on GSA's Environmental Services offering, please visit us at: [www.gsa.gov/environmentalservices](http://www.gsa.gov/environmentalservices).



## Materials

*I*n today's built environment, there are a wide variety of green alternatives to choose from when purchasing building materials or when devising energy and water efficient strategies.



*Rapidly renewable materials* help reduce the world-wide depletion of finite raw materials and materials that have a long growth cycle, such as trees. A rapidly renewable material or product is defined by the LEED® standards as being made from plants that are typically harvested within a 10-year cycle or less. Bamboo flooring, wool carpets, straw board, cotton batt insulation, and sunflower seed board are some examples.

*Engineered wood* is designed to be stronger, straighter, and more consistent in performance than solid sawn lumber. It is also more efficient in its use of wood. An engineered I-joist has greater strength vertically than a standard floor joist and uses 45 percent less lumber. Waste wood and trees, irrelevant of size, age, or species can go into engineered wood, greatly reducing the amount of waste typically created when processing trees for lumber. Usually young growth trees are used to make engineered wood products, in approximately a 15-year cycle. OSB (oriented strand board) is an engineered wood product that is stronger than plywood. It is composed of many strands of wood layered and oriented in cross directions.

*Green roofs* are roofs partially or completely covered with vegetation and soil, or a growing medium planted over a waterproofing membrane. These roofs shelter buildings from weather elements, while helping to expand a building's lifespan more than conventional roof coverings.

The benefits of going green with rooftops include:

- Energy reduction;
- Noise/sound insulation;
- Reduced storm-water runoff;
- Vegetation growing for cleaner air;
- Pollutant filtering in air and rainwater;
- Heating and cooling load reduction on buildings; and
- Amenity space and aesthetic appeal.



EPA's regional headquarters in Denver Colorado is rated as a Gold standard LEED building. 100 percent of parking is underground, water use has been reduced by 49 percent, and half of the materials used were manufactured within 500 miles of the site. For more information on this impressive green building project, visit our website at [www.gsa.gov](http://www.gsa.gov) and search on EPA Region 8 Headquarters.



The concept of green roofs was developed to increase the lifespan of a roof's waterproofing membrane, while reducing building operational costs. Green roof systems are flexible and can be configured for both new and existing facilities to improve performance, ensure a sustainable roof system, and contribute to a healthier environment.

Green roofing and the use of alternative roofing materials can result in lower temperatures and reduce energy consumption for air-conditioning. When dark, non-reflective surfaces are used for roofs, driveways, parking areas, and walkways, the heat from the sun is absorbed by these surfaces and is radiated back to the surrounding area creating a "heat island" effect. The temperature in urban areas is artificially raised 10

degrees or more by this effect when compared to suburban or rural areas, resulting in larger air conditioning systems being required and thus more energy used. The heat island effect can be counteracted by using light, reflective surfaces for roofs, parking areas, etc. Green roofs, also known as eco-roofs or living roofs, are typically installed on flat roofs, but can be adapted for sloped roofs as well. They can be either “intensive,” with about 12 inches of soil and a wide variety of plants, or “extensive,” with about three inches of soil and a more limited selection of suitable plants. Extensive green roofs are less expensive, lighter, and easier to maintain. Green roofs have a longer life than a traditional roof and can dramatically reduce heating and cooling costs. They counteract the heat island effect, reduce stormwater runoff, and pollution by absorbing the water and subsequently allowing it to return to the atmosphere through evaporation, and also offer alternative habitats for birds, insects, and other wildlife.

Green roofs are now available through GSA Schedule 56. As the acquisition experts, we at GSA stand ready with an array of integrated solutions to help you establish a single green-roof system, or as many as your agency needs. And, with GSA, compliance with the Federal Acquisition Regulation (FAR) is assured.

Green-roof technology serves as an energy-reduction goal in accordance with the Energy Policy Act of 2005 and also assists building owners in achieving LEED® certification. Green roofs are part of GSA Schedule 56, Buildings and Building Materials/Industrial Services and Supplies. Providers of green roofs can be found at GSA's eLibrary, [www.gsa.gov/elibrary](http://www.gsa.gov/elibrary), under GSA Schedule 56.



## Furnishings and Equipment

Purchasing environmentally-friendly furniture, furnishings, electronics, and equipment helps deliver and maintain productive workplaces. Purchasing electronic items that have Energy Star ratings helps agencies use less electricity, therefore saving on energy costs. Other items containing recycled content (i.e., promotional items made of recycled material, organic pool cleaning products) help provide quality acquisition services by following mandated environmental policies and Executive Orders. Disposing of existing furniture, furnishings, and other excess property is cost-effective for the customer agency and the items get reused, keeping the property out of landfills.



## Energy Star Products

GSA has partnered with the Environmental Protection Agency (EPA) and the Department of Energy (DOE) to offer the federal community a broad range of energy efficient products. GSA makes these items available to federal buyers through the GSA Multiple Award Schedules (MAS) program. Customers can gain access to an up-to-date listing of

Schedule vendors that are participating in the GSA Multiple Award Schedules (MAS) program by searching on the GSA Schedules eLibrary Web site.

GSA's Schedule 51 V, offers environmentally preferred performance coatings, leak detection products, electric motors, isolators, pressure regulators, and surface cleaners, all designed to help agencies go green.

GSA's goal is to become the preferred source for environmental products and services in the federal government. To this end, GSA MAS continually updates contracts to ensure that vendors offer products that meet the Environmental Protection Agency (EPA) and the Department of Energy (DOE) purchasing requirements. GSA's online shopping and requisitioning systems highlight products that contain environmental attributes, such as recycled materials, in their individual price lists and catalogs.

Often, identifying the environmental attributes of everyday products can be the most difficult aspect of buying supplies and equipment. GSA, as a government agent and subject to the same environmental mandates as other agencies, continually updates contracts to ensure vendors offer products that work within environmental goals.

Many green products are currently available from GSA. These products can be purchased on *GSA Advantage*® at [www.gsadvantage.gov](http://www.gsadvantage.gov). This online shopping and ordering system provides access to thousands of contractors and millions of supplies and services through GSA MAS contracts.

*GSA Advantage*® offers the Environmental Aisle, which allows direct access to GSA's broad range of environmental products. This feature allows customers to conveniently search for products by environmental attributes. It can be accessed by clicking on the environmental special category listing on the *GSA Advantage*® homepage or by visiting [www.gsadvantage.gov/environmental](http://www.gsadvantage.gov/environmental).

GSA Global Supply™ also offers environmentally friendly products. Products can be requisitioned from *GSA Advantage*® or from GSA Global Supply™ directly at [www.GSAglobalsupply.gsa.gov](http://www.GSAglobalsupply.gsa.gov). The GSA Global Supply™ ordering site also has the capability to query for green products.

GSA uses a system of icons that makes it easy to spot environmental products on both ordering sites and in the GSA Global Supply™ Catalog. Corresponding environmental icons appear next to products that contain one or more environmental attributes. These convenient resources are ideal for identifying and acquiring office products, cleaning supplies, tools and hardware, wildland fire equipment, and other common-use commodities. See page 40 for a tear out reference sheet of environmental icons.

Orders are shipped directly to customers, often within 24-hours. Use a government purchase card or direct billing through your AAC/DODAAC. Products can be ordered by phone at (800) 525-8027 or by fax at (800) 856-7057. AbilityOne (formerly JWOD) program and Federal Prison Industries (UNICOR) supply items are represented in this catalog as well. GSA publications and catalogs can be requested at [www.gsa.gov/cmls](http://www.gsa.gov/cmls).

## Human Health

The EPA has cited indoor air quality as one of the top five environmental health risks in the U.S., and the Lawrence Berkeley National Laboratory has estimated that between \$23 and \$56 billion could be saved nationally through improvements in indoor environmental quality from health and productivity gains.





**Volatile Organic Compounds (VOCs)** are chemicals found in everyday household products such as paints, sealants, household cleaning fluids, fuels, pesticides, and plastics.

The EPA reports that exposure to VOCs at various levels can be linked to eye, nose, and throat irritation; headaches, loss of coordination, allergies, fatigue, dizziness, and nausea; damage to kidney, liver, and central nervous system. Some VOCs can cause cancer in animals; some are suspected or known to cause cancer in humans.

Well-known VOCs, such as benzene (found in gasoline) and toluene (used in paints, fuels, and glues), are common solvents that are highly carcinogenic and irritating to bodily organs after regular exposure. Many furnishings and building materials emit VOCs as well, outgassing up to a year after construction.

Agencies can access low VOC products through GSA Advantage!® at [www.gsadvantage.gov](http://www.gsadvantage.gov).

A common misperception of green building is that by making the exterior of the building “tight” (insulating really well and keeping out drafts), ventilation is undermined, which can cause health problems such as mold or mites. It’s not uncommon for someone to build a very tight building in pursuit of saving energy and not pay attention to adequate ventilation, and those people will almost certainly have problems with mold and other things.

There are two prerequisites related to Indoor Environmental Quality for a building to be certified by the U.S. Green Building Council (USGBC). One is that smoking is not allowed indoors or near any entrances or windows, and the other is that the building meet minimal indoor air quality standards through the use of a ventilation system that swaps outdoor and indoor air to keep indoor air fresh.

***Let GSA help make your building the safest it can be.***

## Community

Green buildings, by nature, are designed to lessen their impact on the environment, but at the same time are often intended to make a mark by having a positive impact on the surrounding community, not just in terms of reducing environmental footprint, but also in terms of stimulating social and economic growth. These are all considerations in the designing and building of federal facilities.



Courtesy of EPA

GSA seeks to conduct its real estate activities and meet its client agencies' needs in ways that support community development. GSA facilities are located in more than 2,000 urban communities nationwide, and in each of these communities GSA seeks to be an integral member and good neighbor. Through community partnerships, openness to the public, and location and design decisions, GSA provides multiple returns for communities and actively supports urban development. The principles that drive GSA business decisions in each of these areas are as follows:

#### Strategic Location and Design

- Locate facilities in central business areas, historic districts, and redevelopment areas; and
- Design and renovate facilities to enhance workplaces, revitalize communities, and represent the highest quality in architectural and urban design.

#### Customer and Community Partnerships

- Establish partnerships with local customers and community organizations to address mutual neighborhood concerns;
- Contract with business improvement districts and downtown companies;
- Collaborate with civic advocate organizations at the national level;
- Contribute to the improvement of areas around GSA facilities; and
- Service as a clearinghouse for good practices.

#### Openness to the Public

- Incorporate retail and other high-traffic uses into GSA facilities, where feasible;
- Promote the use of GSA public spaces to host events, markets, meetings, and displays; and
- Meet security needs in ways that remain welcoming to the public.

Courtesy of EPA



Green building strategies and technologies are not just becoming common in today's built environment, but are also becoming industry requirements for design, construction and renovation efforts across the country. To find out more about how GSA is helping agencies achieve their green building goals and for more information on GSA's green building practices, please visit our Web site at:

[www.gsa.gov](http://www.gsa.gov).

# Printed catalogs and the ordering Web sites use symbols to identify the environmental attributes of the products.

## Here is a quick reference guide to those symbols.



**Environmentally Friendly** - Item contains environmental attributes or features such as water conserving, lead-free, etc. as described in the item detail.



**Recycled** - Item contains recycled content as described in the item detail (U.S. Environmental Protection Agency (EPA) item meeting EO 13101).



**Comprehensive Procurement Guideline compliant** - This product has been certified to meet or exceed the U.S. Environmental Protection Agency's Recovered Material Advisory Notice (RMAN) standard for recovered materials as specified in the Resource Conservation and Recovery Act Section 6002 Comprehensive Procurement Guideline.



**Energy Star** - Item complies with U.S. Department of Energy (DOE) and U.S. Department of Environmental Protection Agency's (EPA) Energy Star Program as required by the Federal Acquisition Regulation (FAR) Subpart 23.203 and Executive Order 13123.



**FEMP** - Item meets Federal Energy Management Program (FEMP) energy efficiency levels as required by the Federal Acquisition Regulation (FAR) Subpart 23.203, Executive Order 13123, and Executive Order 13221.



**PRIME** - Item is included in the Navy's Plastics Removal in Marine Environment Program. Items in the PRIME program require biodegradable packing materials.



**NESHAP compliant** - The "as applied" formulation of this coating has been certified to meet applicable volatile organic compound and hazardous air pollutant emission limits as established by National Emissions Standards for Hazardous Air Pollutant (NESHAP) regulation, 40th Code of Federal Regulation, Part 63.



**GreenSeal Seal of Approval** - This product has been certified to meet or exceed voluntary standards for environmental preferability as established by GreenSeal.



**California South Coast Air Quality Management District compliant** - This product has been certified to meet or exceed applicable air emissions standards established by the California South Coast Air Quality Management District.



**Bio-based** - This product has been certified to meet or exceed bio-based material standards as established by the USDA Biobased Products Coordination Council.



**U.S. EPA Significant New Alternatives Program approved** - This product meets the U.S. EPA Significant New Alternatives Program criteria requirement as a suitable substitute for ozone depleting substances.



**U.S. EPA Environmental Technology Verification** - This product has been evaluated under the U.S. Environmental Protection Agency Environmental Technology Verification Program and found to be an innovative technical solution, beneficial to human health or the environment.



**Non-Toxic item** - Item is non-toxic



Electronic Product Environmental Assessment Tool (EPEAT) registered item – the EPA recommends that federal ordering activities give preference to information technology (IT) products with one of the following three EPEAT ratings: bronze, silver or gold:



**Bronze:** Product meets all required criteria



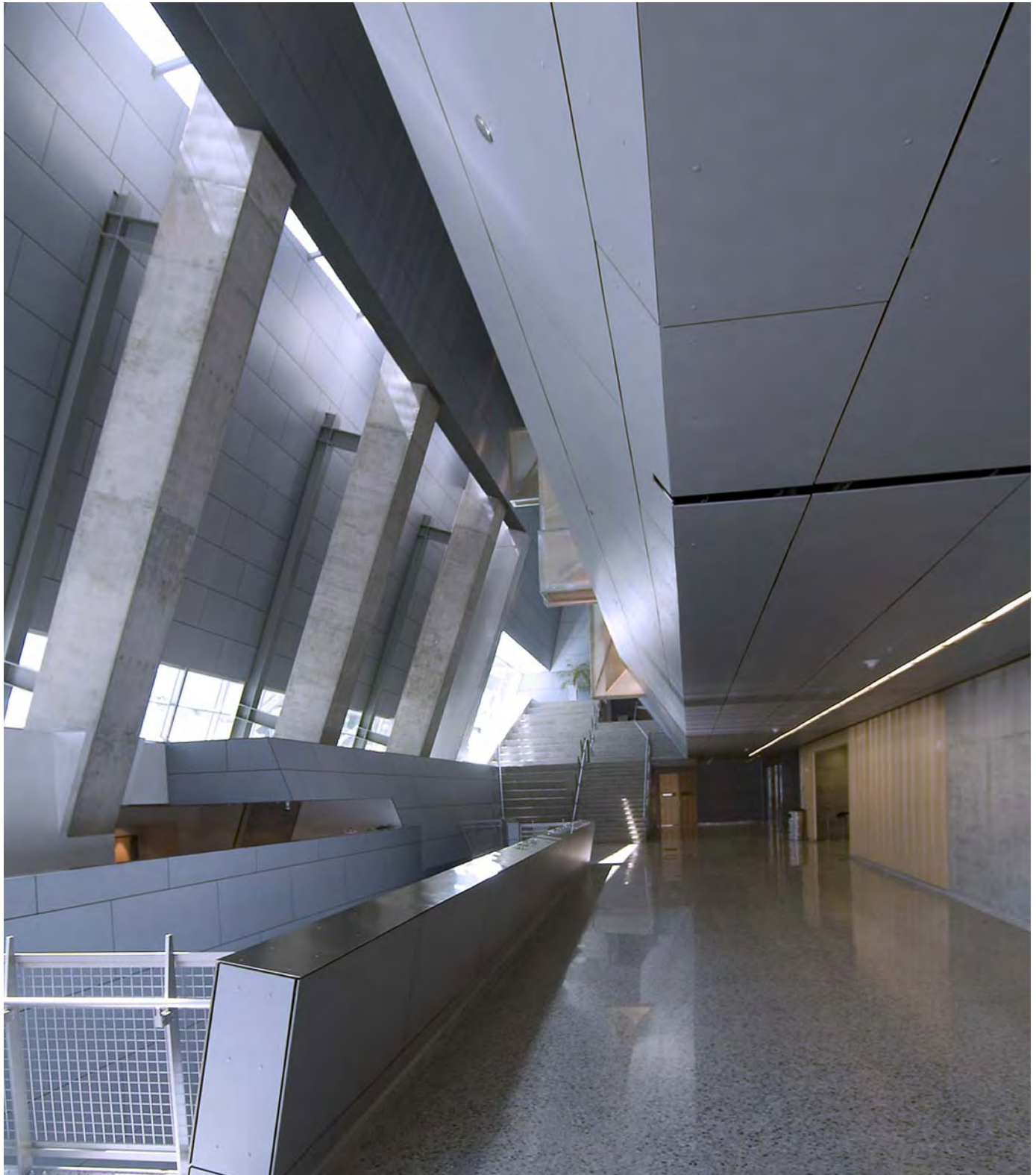
**Silver:** Product meets all required criteria plus at least 50% of the optional criteria that apply to the product type being registered



**Gold:** Product meets all required criteria plus at least 75% of the optional criteria that apply to the product type being registered

# Model Architecture

San Francisco Federal Building





The San Francisco Federal Building is a reflection of GSA's commitment to design excellence and sustainable architecture. Built to stand the test of time, like the James F. Browning Federal Courthouse across the street that was built in 1905, the San Francisco Federal Building reflects the most innovative technology of our time and is built to serve its tenants and the community well into the next century.

As part of its commitment to sustainable living, GSA works to reduce consumption of resources, minimize waste and create a healthy and productive work environment for all tenants who occupy federal workspace. The San Francisco Federal Building is a demonstration of this commitment, incorporating state-of-the-art technology and innovation at every turn. Tenants of the San Francisco Federal Building will enjoy breathtaking views, as well as an abundance of natural light and natural ventilation that encourage a healthy work environment while dramatically reducing energy consumption.

The new federal building is a thin and elegant 234-feet-high by 65-feet-wide tower rising 18 stories along the northern edge of the Mission and Seventh Street site. A four-story building annex projects from the tower at the western edge of the site, perpendicular to Mission Street. The site also includes a number of resources that are available for public use, including: a café, a childcare center, an auditorium and conference center, and a public plaza.

Large and flexible floor plans with power and data cabling conveniently routed through easily accessible, under floor space makes workspace reconfiguration easy while reducing costs for remodeling.

## HVAC

Throughout the year, San Francisco temperatures range between 49 and 65 degrees. The new San Francisco Federal Building takes full advantage of the mild temperatures to provide a comfortable interior

environment while reducing energy consumption. Above the fifth floor, the windows automatically adjust to admit fresh air that is circulated through the building to promote healthy ventilation. The window system creates a "living skin" that allows the building to breathe.

A computerized system, known as the building automated system (BAS), manages the building's interior environment and lighting. To adjust the temperature, the computer system opens and closes windows and sunscreens. Breezes are admitted through openings on the northwest side and vented out through the southeast wall. The building also has a small conventional heating and cooling system as well as windows that can be opened and closed manually in tower locations above the fifth floor. Office space is designed to maximize airflow. Enclosed offices and meeting rooms are located in the interior spine of the building and have ceilings that allow air to flow over them. The sunscreen is a perforated metal shield to reduce sunlight and heat. As the building heats up from the sun, the screen closes, channeling the heat upward and creating a "chimney" effect that draws hot air out of the building.

During the night, BAS opens the windows to flush out heat build-up and allow the nighttime air to cool the building's concrete interior. Throughout the day, the exposed concrete pillars and wave-form ceilings help cool the air circulating through the building. Nationally, GSA strives to use no more than 55,000 BTUs of energy per square foot per year in all its buildings. Most federal buildings use about 69,000 BTUs.

Remarkably, the new San Francisco Federal Building is expected to require only 27,000 BTUs per square foot per year. The savings roughly equates to enough energy to power about 750 homes and is expected to qualify for a \$150,000 energy savings award from PG&E. Electrical lighting is typically the largest energy cost for an office building representing up to 40 percent of a facility's total energy load. The new San Francisco Federal Building's lighting strategies improve the workplace and are a critical facet of this project's sustainable design. Eighty percent of the workspace is illuminated with natural light. Ambient light, the general illumination in an office, comes from sunlight channeled through the windows and bounced off the walls and ceiling, to extend its reach with minimum glare and intensity.

The overall ceiling height in the tower floors is 13 feet and 10 feet in the interior offices, allowing light to penetrate deep into work spaces. Powered lights are also available and support the sun's energy. The building's automated system manages the balance between powered and natural daylight. The powered lights are on only when people are at their workstations. Together, these approaches cut the use of energy for lighting by approximately 26 percent.

## Building Materials

The concrete used for construction of the building is a 50 percent slag-concrete mix. Use of slag, which is a by-product of iron, results in a material that is actually stronger than concrete alone. This environmentally sound choice also provides the warm, light colored tones designers were looking for since much of the material is visible throughout the structure.

Carpet, paint, and items such as furniture were carefully considered with respect to the project's sustainable goals. GSA mandated that 75 percent of materials used during construction be recycled. Currently the project is recycling 87 percent of waste material.

## Work Environment

The building's interior is designed to create a healthy and productive work environment. The tower's high ceilings and glass facades provide 90 percent of the building's tenants with views overlooking the city. The primary

elevators stop at every third floor, opening to sky lobbies that promote exercise through use of a dramatic central staircase. These lobbies also provide a comfortable setting for informal meetings or discussions. A handicap-accessible elevator that travels to every floor is also available. The outer perimeter of the tower floors is configured with open offices and 52-inch-high partitions to maximize light. Meeting rooms and enclosed offices are located in the middle "spine" of these floors and have fitted glass panels to provide privacy when needed.

## Leadership in Energy and Environmental Design (LEED®) Rating

Managed by the U.S. Green Building Council, LEED®'s Green Building Rating System is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED®'s whole-building approach to sustainability recognizes performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. Certification is awarded one year after occupancy.

Even though the new San Francisco Federal Building was designed five years before the LEED® Certification System was established, it is still considered by many to be the benchmark for sustainable building design.

## Quality Control

Three independent systems are used to check and verify that the building is meeting energy conservation goals. Energy use will be monitored by the GSA Energy Center and compared with conventional federal buildings and the project's goals. To verify sustainability, the project is registered with the LEED® program. The project team and GSA's Office of Applied Science have allied with a number of academic researchers to verify workplace productivity strategies. Among them: Lawrence Berkeley National Laboratory; Carnegie Mellon University's Center for Building Performance and Diagnostics; and the University of California Berkeley, Center for the Built Environment.

For more information, please contact:

Gene Gibson  
Regional Public Affairs Officer  
GSA Pacific Rim Region  
(415) 522-3001

# What is VETS?

**A new way for federal agencies to achieve small business goals through purchase of Information Technology solutions from small businesses owned by service-disabled veterans.**

## **VETS is:**

- **A multiple award indefinite-delivery/indefinite-quantity contract**
- **Designed to provide cutting-edge technology solutions to federal agencies without the expense and time involved in open market set-aside procurements**
- **A result of Executive Order 13360**

*GSA, in its continued commitment to help federal agencies reach their small business goals, is proud to introduce its newest contract designed to simplify the acquisition of information technology solutions from firms owned by service-disabled veterans.*

*The VETS GWAC offers the right mix of innovative solutions from industry partners who stand ready to meet your next technology challenge.*

## **Features**

- Set-aside contract for service-disabled veteran-owned firms
- Five-year base period with one, five-year option
- Two functional scope areas
  - Systems Operations & Maintenance
  - Information Systems Engineering
- Ordering procedures based on Fair Opportunity (FAR 16.505)
- \$5 billion program ceiling

## **Benefits**

- Federal agency assistance in meeting 3 percent goal for contracting with service-disabled veteran-owned firms
- Pre-competed, easy to use contracts
- Short procurement lead time
- Training and support from VETS GWAC acquisition team
- Increased contracting opportunities for small business
- Flexible subcontracting arrangements, especially with service-disabled veteran-owned businesses

**Getting started is easy.** Just call (877) 327-8732 or send an e-mail to [vetsgwac@gsa.gov](mailto:vetsgwac@gsa.gov). Visit [www.gsa.gov/vetsgwac](http://www.gsa.gov/vetsgwac).



**Federal Acquisition Service**

# *Ask the* Environmental Expert



Welcome to GSA's  
"Ask the Expert"  
column.

Here, we answer  
commonly recurring  
questions received  
about GSA program  
offerings.

This month, the "Ask the Expert" column offers answers to questions about how GSA's broad range of environmental products and services can support customer needs.

## We Want to Hear from You!

We would like to gather your questions in advance and then respond to them. Please send any questions to [asktheexpert@gsa.gov](mailto:asktheexpert@gsa.gov). You may well see your question in our next edition!

**Question: The President signed Executive Order 13423.  
Give us a sense of what this means for agencies.**

**Answer:** Executive Order (EO) 13423, *Strengthening Environmental, Energy and Transportation Management*, was signed on January 24, 2007, making *the policy of the United States that federal agencies conduct their environmental, transportation, and energy-related activities under the law in support of their respective missions in an environmentally, economically, and fiscally sound, integrated, continuously improving, efficient, and sustainable manner.* Under EO 13423, agencies must develop Green Purchasing Plans (GPPs). The goal of the GSA is to define policy and procedures for implementing the components of the Federal Green Purchasing Program. The goal of the components of EO 13423 is to use federal purchasing power to develop, demonstrate the viability of, and sustain markets for products and services with specific energy or environmental attributes. EO 13423 directs federal agencies to purchase recycled content, energy efficient, water conserving, biobased, and environmentally preferable products, as well as alternative fuels, electricity from renewable sources, and products with lesser or not toxic or hazardous constituents. This EO consolidated a series of Greening the Government EOs that were issued between 1998 and 2000 to make them current with changing public laws and green purchasing requirements.

The Executive Order is broken into sections, the first of which is Policy. Here, federal agencies are told that they will conduct their environmental, transportation, and energy-related activities in an environmentally, economically and fiscally-sound, integrated, continuously improving, efficient, and sustainable manner.

Section 2 elaborates on the goals for agencies. The head of each agency is instructed to improve energy efficiency and reduce greenhouse gas emissions through reduction of energy intensity; ensure that at least half of the renewable energy consumed by the agency in a fiscal year comes from new renewable sources;

reduce water consumption intensity; require, in an agency's acquisitions of goods and services, the use of sustainable environmental practices (acquisition of biobased, environmentally preferable, energy-efficient, water-efficient and recycled-content products, and use of paper of at least 30 percent post-consumer fiber content); ensure that the agency reduces the quantity of toxic and hazardous chemicals and materials acquired; ensure that new construction and major renovation of agency buildings comply with the Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings; ensure that for federal fleets of at least 20 vehicles, the agency reduces the fleet's total consumption of petroleum products by 2 percent annually, increases the total fuel consumption that is non-petroleum based by 10 percent annually and uses plug-in hybrid vehicles when they are commercially available; ensure that when an agency acquires an electronic product, it meets at least 95 percent of the Electronic Product Environmental Assessment Tool (EPEAT) requirements and enables the Energy Star feature on agency computers and monitors, establishes and implements policies to extend the useful life of agency electronic equipment and uses environmentally sound practices when disposing of electronic equipment.



Section 3 defines the duties of the heads of the agencies. These heads must first implement sustainable practices for energy efficiency, greenhouse gas emissions avoidance or reduction, and petroleum products use reduction, renewable energy (including bioenergy), water conservation, pollution and waste prevention and recycling, reduction, or elimination of the use of toxic or hazardous chemicals, high performance of construction, lease, operation and maintenance of buildings, vehicle fleet management, and electronic equipment management. In addition, they will implement Environmental Management Systems (EMS) to ensure the use of the EMS as the primary management approach for addressing environmental aspects of internal agency operations and activities. The heads of agencies must also establish programs for environmental training, as well as conduct environmental compliance reviews and audits.

***Question: What role does GSA play in providing environmentally responsible solutions?***

***Answer:*** GSA is working toward environmental management stewardship in every aspect of its mission; both in serving other agencies and in our own operation. From purchasing recycled paper and reducing office waste

to buying renewable power and managing energy efficient buildings, GSA uses green solutions to operate efficiently. Federal agencies can access green products and services at GSA, while obtaining alternative fuel vehicles through both our GSA Fleet program and GSA Automotive. GSA's Personal Property Management program provides a major resource for disposal and reuse of excess property. Federal agencies can find the solutions to all of their "Green" requirements through GSA.



***Question: How can Personal Property Management help agencies find green solutions?***

***Answer:*** The Personal Property Management Program offers solutions to EO 13423. When a federal agency wants to get rid of excess property, they don't just dump it into a landfill. Instead, every possible attempt is made to find a way to reuse the property in other agencies within the federal government. This is where the Personal Property Management Program comes in. The PPM program is authorized (by Section 121c of Title 40, US Code) to prescribe policies to promote the maximum use of excess government personal property by executive agencies. The Federal Management Regulation (FMR), Title 41 of the Code of Federal Regulations (CFR) Part 102-36, further specifies that the program ensure that final disposition complies with applicable environmental, health, safety, and national security regulations. The FMR also states that excess property be the first source of supply for federal agencies. This is specified in 41 CFR 102-36.35: All executive agencies must, to the maximum extent practicable, fill requirements for personal property by using existing agency property from other federal agencies in lieu of new procurements. This ensures that property already paid for with taxpayers' money is used to the fullest extent and lets agencies avoid the cost of new procurements. Reuse also helps protect the environment by keeping excess out of the pollution mainstream. Federal agencies that have excess property must report the property to GSA. GSAXcess® ([www.gsaxcess.gov](http://www.gsaxcess.gov)) enables agencies to report property online. Once property is posted on GSAXcess®, other federal agencies can view the provided details (pictures, quantity, condition) and submit a request for transfer of the item as all transfers are documented on "Transfer Orders" during a 21 day period. When a request is approved, the receiving agency is free to pick up the property from the holding agency. Normally, the only costs incurred during the process are the transportation and handling costs. If excess property is not requested by any federal agency, the property becomes "surplus" and can be donated to state agencies. Donation is enabled by a process similar to federal agencies', though the eligible public agencies must go through a State Agency for Surplus Property (SASP). The SASPs screen



and request property in GSAXcess® during the same 21 days that federal agencies screen, however, GSA cannot allocate property to the SASPs for donation until after the 21 day screening period. Once GSA approves a SASP's request, the SASP coordinates the physical transfer to the recipient donee organization. Property that is not requested by either federal or state agencies is available for public sale. GSAAuctions® is GSA's sales center for personal property under the eGov Federal Asset Sales Initiative ([www.gsa.gov/gsaauctions](http://www.gsa.gov/gsaauctions)). Only after all of these processes have transpired will reported property be considered for recycling or abandonment/destruction. GSA's Personal Property Management program (PPM) makes every effort to keep property from having that fate. Reuse is the goal, and every piece of property that gets reused via federal utilization, donation, or sale is a piece of property not being added to millions of tons of waste generated every year.

Another PPM program, **Computers for Learning (CFL)**, fights the problem of electronic waste, which is among the fastest growing and most toxic components of municipal trash. The Computers for Learning program promotes the reuse of federal excess computers and peripheral devices

among needy schools and educational nonprofit organizations, reduces landfill disposal of toxic wastes, and maximizes the value of federal assets.

**Question: Tell us more about CFL....**

**Answer:** Although computers contain valuable metals, chips, and parts, these materials can be costly to recover. Hazardous materials such as lead, cadmium, mercury, brominated flame retardants, and hexavalent chromium must be dismantled in special ways so as not to cause harm to humans or the environment. Continued use of the computers is a better solution than dismantling or component recovery. Recycling an unwanted computer is shortsighted, considering the many benefits of reuse. When federal agencies partner with schools to reuse and give computer equipment a second life, they also give opportunity to our America's youth in need. The CFL program facilitates the transfer of excess federal computer equipment to schools and educational nonprofits, giving special consideration to those with the greatest need. Excess electronic products entered into GSAXcess® are automatically offered to eligible schools and educational nonprofits through the CFL program.

Reusing just one computer with a Cathode Ray Terminal monitor saves: 30 pounds of hazardous waste, 77 pounds of solid waste, 17.5 gallons of water from being polluted, 32 tons of air from being polluted, 1,333 pounds of carbon dioxide from being emitted, and 7,719 kilowatts of energy!

For more information, please visit [www.gsa.gov/cfl](http://www.gsa.gov/cfl).



**Question:** What types of green solutions does GSA provide?

**Answer:** Let's first talk about green products. EO 13423 establishes standards for environmentally sustainable practices. This includes defining the use of several categories of green products like recycled content products, Energy Star and energy efficient products, biobased products, Environmentally Preferable Products (EPPs), non-ozone depleting substances, and priority chemicals. Products that meet and are consistent with these category goals can be acquisitioned from GSA Multiple Award Schedule vendors or requisitioned from GSA Global Supply™. To locate the thousands of environmental items identified by icons, please visit [www.GSAGlobalSupply.gsa.gov](http://www.GSAGlobalSupply.gsa.gov) or [www.gsaadvantage.gsa.gov/environmental](http://www.gsaadvantage.gsa.gov/environmental).

GSAAdvantage® features the Environmental Aisle, which is designed to allow direct access to the variety of environmental products that GSA offers. The Environmental Aisle allows for easy searches of products by environmental attributes. As of September 2008 GSA offered 250,961 environmental items on GSAAdvantage®.

**Question:** What types of services solutions does GSA provide to its customers?

**Answer:** Electronics Stewardship is a major provision of EO 13423 and addresses electronics recycling, calling on each agency to “seek to reduce” the environmental impact of how they purchase, use, and dispose of electronics. Since the federal government spends approximately \$60 billion annually on IT-related purchases, the impact on the environment can be significant if proper disposal techniques are not used. Obsolete electronics are quickly becoming the world's most voluminous waste problem. Electronic components are comprised of a variety of valuable resources, which require energy to obtain and produce. Re-usable components in many electronics products can be easily harvested and utilized in other applications. Discarding this equipment without using these parts and materials is harmful to the environment when energy and resources are spent producing the same components using brand-new materials. In addition, many electronic components contain hazardous or toxic substances and electronic products are the leading source of heavy metal contamination in the solid waste stream. Through **GSA's Schedule 899, Environmental Services**, contractors can provide waste management and recycling for batteries, electronic equipment and parts, as well as Cathode Ray Tubes. They can also assist with pollution minimization or prevention initiatives including reuse assessments and inventory control.

Mentioned earlier, EO 13423 calls for more widespread use of a management system to assist in the identification, tracking, and prioritization of environmental issues and their impacts. Environmental Management Systems are based on continuous improvement, prevention of pollution, and commitment to compliance. Schedule 899 has contractors on schedule that allow governmental organizations to move beyond just compliance in the area of **Environmental Compliance Services**. These contractors can conduct audits on an agency's current EMS system or assist with creating audit procedures. An EMS can be designed and implemented by contractors under this schedule incorporating five common elements:

*GSA Global Supply™ is also a strong proponent of the environmental initiatives prescribed in Executive Order 13423. In FY 08, Global Supply™ offered a total of 2665 National Stock Numbered Items having at least one environmental attribute. We offer products that have attributes designating them as biobased, biodegradable, energy efficient, water conserving, low toxic, having low volatile organic compounds, and having recycled content.*



policy, planning, implementation and operation, checking and corrective action, and senior management review. The EMS can be tailored to meet the specific requirements of each client's organization.

In addition, through this Schedule, agencies can gain access to contractor expertise in these other areas as well:

#### **Environmental Planning Services and Documentation.**

Environmental consulting that includes development; planning and facilitation; coordination and documentation for initiatives in areas of chemical, biological, radiological, and/or hazardous material services; environmental assessments and environmental impact statements under the National Environmental Policy Act (NEPA); endangered species, wetlands, watersheds and other natural resource management plans; archeological and/or cultural resource management plans; environmental program and project management and environmental regulation development; economic, technical and/or risk analysis; and, other environmentally related studies and/or consultations. Homeland Security issues including vulnerability assessments, biochemical protection, identification of

threats, and protective measures to mitigate the threats, and Crime Prevention through Environmental Design (CPTED) surveys.

#### **Environmental Occupational Training Services.**

Training to include standard off-the-shelf, customized, and/or computer-based interactive courses, as well as converting existing courses to electronic media. Training may be conducted on- or off-site and may be on any number of environmentally related issues, including fire preparedness training and public fire safety education.

**Waste Management Services.** Data collection, feasibility or risk analysis, RCRA/CERCLA site investigation, hazard and/or non hazard exposure assessments, waste characterization and source reduction studies, review and recommendation of waste tracking or handling systems, waste management plans and/or surveys, waste minimization/pollution prevention indicatives, review of technologies and processes impacting waste management, furnishing or inventory of material safety data via CD, internet, facsimile, mail or other media; development of emergency response plans.

**Environmental Advisory Services.** Ongoing advice and assistance with data and information support of agency environmental programs involving areas such as hazardous material spills; material safety Data Sheets (MSDS); information hotlines; poison control hotlines.

**Geographic Information Services.** Mapping and cartography, natural resource planning, site selection, migration pattern analysis, pollution analysis, and emergency preparedness planning; providing services to support geologic logs, topographic data, 3D/4D interactive visualization packages, and data interpretation.

**Remediation Services.** Excavation, removal and disposal of hazardous waste; remediation-related laboratory testing; site preparation characterization, field investigation, conservation and closures; wetland restoration; emergency response clean up; UST/AST removal; air monitoring; soil vapor extraction; stabilization/solidification; bio-venting; carbon absorption; reactive walls; containment; monitoring and/or reduction of hazardous waste sites as well as unexploded ordnance removal.

For more information, please visit our Web site at [www.gsa.gov/environmentalservices](http://www.gsa.gov/environmentalservices).

In addition to fulfilling the requirements of Executive Order 13423, the Environmental Schedule also helps agencies comply with the following rules, regulations and laws:

- National Environmental Policy Act (NEPA)
- Clean Water and Clean Air Acts
- Endangered Species Act
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- Resource Conservation and Recovery Act (RCRA)

**Question: What about in the area of Energy Management Services?**

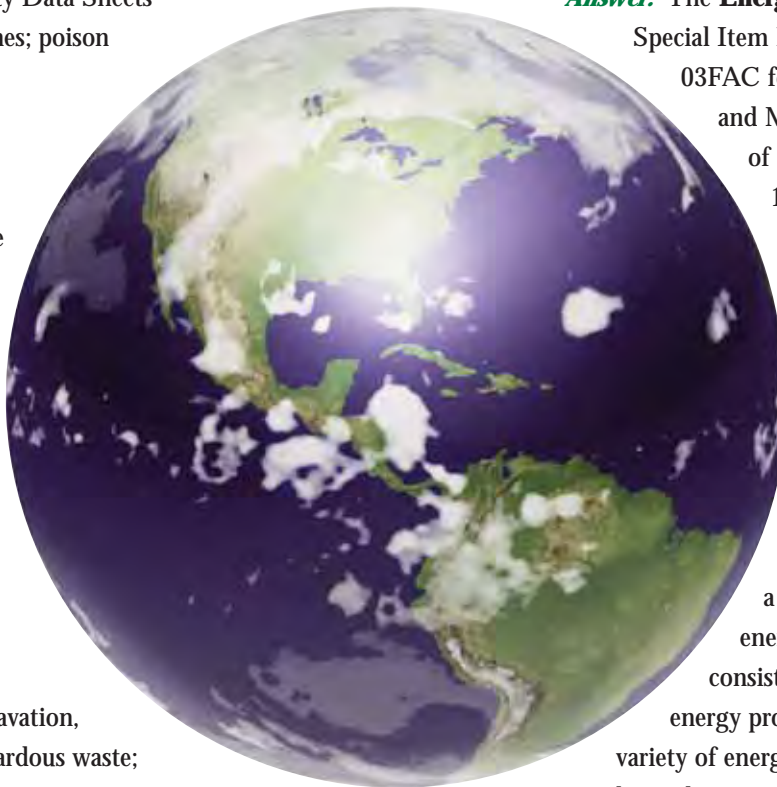
**Answer:** The **Energy Management Services**

Special Item Numbers under Schedule 03FAC for Facilities Maintenance and Management address many of the requirements of EO 13423. It provides a comprehensive energy management solution to assist agencies in reducing and managing energy consumption in the following areas:

**Energy Management Planning and Strategies –**

a four-phase comprehensive energy management solution consisting of all four phases of an energy project and could pertain to a variety of energy projects that include, but are not limited to, renewable energy, sustainable energy, and energy efficient buildings certification programs such as LEED®.

1. Consulting/Auditing/Energy Management Solutions - This includes the strategic planning, energy assessments, e.g. feasibility, vulnerability and other detailed assessments, developing and executing of energy audits, audit plans and energy management solutions.
2. Concept Development and Requirements Analysis - This includes the analysis of the audit results and outlined requirements to design a detailed energy management project concept.
3. Implementation and Change Management - This includes the implementation and integration of more energy efficient practices and systems and training in using them effectively.
4. Measurement and Verification - This includes the performance assessment and measurement of the effectiveness and energy efficiency of the project and can include long term monitoring, verification of savings, and benchmarking.



**Training on Energy Management** – including, but not limited to, reducing energy consumption, mitigating risk with energy systems, operating systems efficiently, making energy efficient system choices, and energy efficient buildings certification programs such as LEED®.

**Metering Services** – including, but not limited to, the installation of metering equipment and software used for the collection of data and measurement of energy consumption through electric, gas, water or steam utilities, the utilization of data to ensure energy conservation goals are being met, and allow for the measurement and tracking of the cost effectiveness of energy technology investments. This could include basic metering services, advanced metering services, maintenance, installation, removal, and disposal of new or existing equipment. Security clearances such as HSPD-12 may be required.

**Energy Program Support Services** – including, but not limited to, billing and management oversight and

assistance in preparing energy services related agency statements of work. Energy efficient buildings certification programs such as LEED® may be included.

**Building Commissioning Services** – including, but not limited to, comprehensive building commissioning services on new construction, major modernization projects, and existing energy consuming buildings and facilities designed to ensure the building systems are designed and built to operate as efficiently as possible. This includes re-commissioning and retro-commissioning services. Energy efficient buildings certification programs such as LEED® may be included.

**Energy Audit Services** – including, but not limited to, developing, executing, and reporting on audit plans and/or perform energy and water audit services. Energy audits may range from cursory to comprehensive. Including, but not limited to, data collection, data analysis, benchmarking with tools such as Energy Star, and written





recommendations of suggested upgrades of electrical and mechanical infrastructure, including their impact on energy consumption and pollution can include recommendations for using alternative Energy Sources. Energy efficient buildings certification programs such as LEED® may be included.

**Resource Efficiency Management (REM)** – including, but not limited to, providing information on possible steps that will improve energy efficiency. This information shall include estimates of cost savings and environmental benefits. This includes on-site analysis of current operations, equipment, and energy purchasing patterns. This may include the services of a resource efficiency advocate for individual or aggregated building(s) in order to maximize resource efficiency. Energy efficient buildings certification programs such as LEED® may be included.

**Innovations in Energy** – innovative approaches to renewable and/or sustainable energy, sustainability services, and energy management technology and services. These might include, but are not limited to, new developments or improvements in providing renewable energy and managing energy through biomass conversion, solar energy, fuel cells, geothermal energy, and hydropower, including tidal power, wave power, tidal stream power, and waterwheels, which can all be used as sources of hydroelectricity. Other sources include wind power. These approaches should be capable of providing renewable and/or sustainable energy and sustainability services that are more carbon-neutral, thereby lessening dependence on traditional, non-renewable, fossil fuel sources of energy such as coal, oil, natural gas and propane. This could include sustainability and carbon management solutions such as analysis, foot printing, measuring, mitigation, verification and management, training on new energy technologies and systems, life-cycle costing, and maintenance and operational support of renewable energy systems; and the implementation, testing and

evaluation of networked energy management systems and services that utilize Internet Protocol - Next Generation (IPv6) enabled systems that are configured using open standards architecture that can include Power over Ethernet (POE) implementation, wireless configurations, data security using IPSEC or 128 DES Encryption standards, high reliability, NIST compliant, and demonstrated energy efficiencies or cost savings, and are capable of integrating with existing information systems data infrastructure and backbone.

**Water Conservation** – services and consulting related to the reduction of water usage, recycling of water for multiple purposes, retention of water, improvement of water quality and water flow. These services can include, but are not limited to, facility water audits, water balance, and water system analysis.

For more information, please visit our Web site at [www.gsa.gov/energymanagement](http://www.gsa.gov/energymanagement).



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# Mapping Your Carbon Footprint





In an effort to promote environmental sustainability, the U.S. General Services Administration (GSA) Federal Acquisition Service (FAS)



Office of Integrated Technology Services (ITS) is developing a prototype web-based management tool to track greenhouse gas (GHG) emissions, energy and fuel use, and other operations at its facilities. This tool will provide a quantitative understanding of an organizations “carbon footprint” and serves as the foundation to make cost-effective energy use and GHG emissions management decisions. Upon completion, the tool will be robust and scalable to meet the future needs of GSA and GSA’s customers.

# GSA's New Energy Use and GHG Emission Management Tool

The integration of information technology and sustainability is a critical component of the strategy to improve business performance and environmental stewardship. The energy use and GHG emissions management tool will baseline GHG emissions, allow for scenario planning on how to use information technology to reduce emissions, track reductions, and institutionalize the data collection requirement now and into the future. Proactive management of an organization's carbon footprint will:

- Reduce energy use
- Reduce operating costs
- Increase efficiency
- Comply with statutory and legislative requirements

The tool will report GHG emissions in a manner consistent with The Climate Registry's General Reporting Protocol published in May 2008. The Climate Registry (TCR) is becoming widely recognized as the North American leader in the area of GHG emission reporting. Ensuring consistency with TCR protocol will enhance the future value of the data gathered and information reported.

The TCR protocol is also consistent with the World Resources Institute/World Business Council on Sustainable Development's GHG protocol, an international standard upon which most other protocols are based.

GHG emissions at ITS facilities will be placed into one of the three categories on the left shown in the table below.

The primary components of the GHG inventory are related to energy and fuel use. Key data to be collected and used as metrics include energy and fuel use associated with business operations. This includes purchased electricity, fuel used in backup generators, as well as miles driven by commuters, public transportation use, and flight miles associated with business travel. Other sustainability metrics such as water use and recycling will also be collected. These metrics provide a blueprint for proactive, cost-effective measures that can be taken to enhance an organization's efficient use of energy, water, and other resources. The implementation of innovative measures addresses the objectives of the Energy Policy Act, Executive Order 13423, and the Energy Policy and

Emissions Scope	Emission Category	Typical Sources
Direct Emissions	Stationary	Emergency Generators
		Natural Gas Heating in Buildings
	Mobile	Fleet Vehicles
	Fugitive	Refrigerants, Dielectric Fluids
Indirect Emissions	Purchased Electricity	Electricity Use in Buildings and Other Facilities
Other Emissions	Employee Commuting	Emissions Resulting from Employee Commuting
	Business Travel	Emissions Resulting from Employee Travel

Security Act. The measures will result in the reduction of facility and administrative costs through the adoption of high performance operating practices.

As one of the largest real estate holders in the nation, GSA is striving to set an example for sustainable facilities management by encouraging initiatives to conserve resources, improve operational efficiency and managerial decision-making, and reduce operating costs. In this

fiscally responsible environment, conservation and efficiency measures will provide direct benefit to optimize taxpayer dollars while improving the environmental stewardship of GSA's operations. It also adds accountability for corporate (and individual) impact on the environment. This organizational strength tethers GSA's corporate mission to the future interests of its customers, the communities where its facilities reside, and the public.

## Project Timeline

October 2008	
November 2008	Complete Requirements Development
January 2009	Architecture Defined
February 2009	System Prototype-Beta Version
April 2009	Functional Prototype Completed



# Universal Botanicals<sup>TM</sup>

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# Texas Notables

A Few Items of Interest about Texas

Edited by Emily LeDuc





## The Five State Flowers of Texas

The Texas Blue Bonnet is as definitive a symbol for Texas as the shamrock is for Ireland. Behind the scenes, however, the selection of this state flower was not so definitive.

After years of debate over two specific varieties of blue bonnets, the state legislature, in 1971, passed a bill lumping together the two varieties into a single category to create

one State flower. However, the language includes an umbrella clause that officially states, “and any other variety of bluebonnet not heretofore recorded.”

Unbeknownst to legislative officials, the Texas landscape supports three additional species of Lupines, making all five of them the state flower. And, if any new species are discovered, they automatically will assume the mantle of state flower as well.

The five state flowers of Texas are:



*Lupinus subcarnosus*, the original champion and still co-holder of the title, grows naturally in deep sandy loams from Leon County southwest to LaSalle County and down to the northern part of Hidalgo County in the Valley.

It is often referred to as the

sandy land bluebonnet. The plant's leaflets are blunt, sometimes notched with silky undersides. This species, which reaches peak bloom in late March, is not easy to maintain in clay soils.

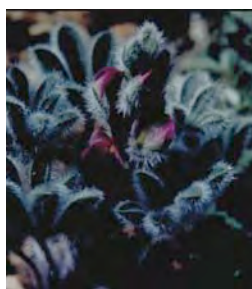


*Lupinus texensis*, the favorite of tourists and artists, provides the blue spring carpet of Central Texas. It is widely known as THE Texas bluebonnet. It has pointed leaflets, the flowering stalk is tipped with white (like a bunny's tail) and hits its peak

bloom in late March and early April. It is the easiest of all the species to grow.



*Lupinus Havardii*, also known as the Big Bend or Chisos Bluebonnet, is the most majestic of the Texas bluebonnet tribe with flowering spikes up to three feet. It is found on the flats of the Big Bend country in early spring, usually has seven leaflets and is difficult to cultivate outside its natural habitat.



*Lupinus concinnus* is an inconspicuous little lupine, from 2 to 7 inches, with flowers which combine elements of white, rosy purple, and lavender. Commonly known as the annual lupine, it is found sparingly in the Trans-Pecos region, blooming in early spring.



*Lupinus plattensis* sneaks down from the north into the Texas Panhandle's sandy dunes. It is the only perennial species in the state and grows to about two feet tall. It normally blooms in mid to late spring and is also known as the dune bluebonnet, the plains bluebonnet, and the Nebraska Lupine.

## Whooping Cranes

Each October, the entire North American population of whooping cranes begins their departure from Canada and makes the epic 2,500 mile journey to Aransas National Wildlife Refuge in Texas. Whooping cranes are endangered with a current total of 375 birds on the continent. Aggressive conservation efforts and a slow but steady increase in numbers since 1937 have brought the population back from a mere fifteen birds.

The regal nature of the whooping crane comes from it's nearly five foot stance – the tallest in North America- and it's pure white feathers dramatically contrasted by a red crown and black wing tips, beak, and feet. Interestingly, conservation efforts have focused on using sandhill cranes as surrogate parents. Because sandhill cranes are more prevalent, whooping crane eggs are fostered by sandhills to ensure the best chance for survival.

Whoopers are named for their loud, resonating call which carries for miles. They feed on a variety of small marine animals living in coastal habitats and augment with acorns, berries, insects, and crayfish.





## San Antonio Botanic Garden

Tucked away just outside of the city proper, the San Antonio Botanical Garden is a quiet place to discover the beauty of Texas. Featuring formal and informal displays, the garden offers a wide variety of sensory delights – including their Garden for the Blind which engages senses of touch and smell.

The Lucile Halsell Conservatory consists of a series of dramatically designed glass buildings rising above the horizon. Designed by Emilio Ambasz, and built by the San Antonio Botanical Society at a cost of \$6.9 million, the Conservatory opened to the public in 1988. Plants from desert regions to equatorial rainforests are housed in these individual glass buildings tucked into the earth. The buildings surround a sunken courtyard and tropical lagoon

filled with aquatic plants. Specialty collections include epiphytic plants display, desert cacti and succulents, equatorial tropicals, palms and cycads, tropical fruits, ferns and aroids, insectivores, and aquatic plants. Each group is housed in its own climate-controlled environment ranging from a 65-foot tall fog-enshrouded forest of palms to a glass display case filled with orchids.

The garden also features a Native Texas Trail that consists of plant communities characteristic of the Hill Country (Edwards Plateau), East Texas Piney Woods, and South Texas. These three distinctive and diverse ecological regions of Texas vary in soil, plant life, topography, and weather. The authentic botanical setting is enhanced by several early Texas houses, which have been reconstructed on the site to help illustrate and interpret the regional theme.

## Nine Banded Armadillo

Texas has only one official state mammal – the nine banded armadillo.

As the only armadillo species found in Texas, the nine banded armadillo migrated north via Mexico from its original home in South America. Slowly walking on the soles of its back feet, the armadillo's shell does not grow. It remains soft until the animal reaches maturity at about 10 pounds.

Normally a slow walker, the armadillo is able to run when danger threatens. Its hard shell affords protection from the thorny underbrush when fleeing predators. Armadillos

traverse streams by simply walking along the bottom, but for larger aquatic trips, it swallows air, doubling the size of its stomach and allowing it to swim across without sinking underneath the weight of its shell.

Armadillos always bear an identical set of quadruplets, conceived from a single fertilized egg. The initial embryo divides in two and those two embryos divide, in turn, into two more. Thus every armadillo is a clone of its three brothers or its three sisters.

The armadillo is the only animal, aside from humans, known to carry leprosy. For this reason it is illegal to sell a live armadillo in the state of Texas.





## South Padre Island

Texas is home to one of the world's longest barrier islands, South Padre Island. The island is geographically situated such that it is the first available landfall as birds traverse the Gulf of Mexico. It is of critical importance for these exhausted travelers as they complete their cross migration from Mexico and Central America. More than 500 distinct species of birds converge at this life saving haven making the lower Rio Grande Valley and South Padre Island one of the crown jewels of the state of Texas.

Spanning 50 acres, the South Padre Island Birding and Nature Center represents a microcosm of the rich habitats that contribute to this very special place. Dune meadows, salt marsh, and intertidal flats are all represented here, along with thickets of native shrubs and trees that are irresistible to migrating birds in their season. Many breed and nest along the quiet Laguna's, palm-fringed Resaca's and in the lush thorn forests.



Texas Parks & Wildlife, U.S. Fish & Wildlife Services, and nine valley communities, have created the World Birding Center, a network of nine sites dotted along 120 miles of river road from South Padre Island west to Roma, with habitats ranging from dry chaparral brush and verdant riverside thickets to freshwater marshes and coastal wetlands.

Over 10,000 acres will be opened up, many for the first time, and all prime for viewing. The mission of the WBC is to protect native habitat while increasing the understanding and appreciation of the birds and wildlife. The project is meant to be a global model for conservation and ecotourism development.

## The LBJ Ranch

As a teenager, Lyndon Baines Johnson spent summers helping out on his Uncle Clarence Martin's cattle ranch along the Pedernales River. Johnson's attachment to this land was strong, having been born down the road on a farm which had originally been settled by his grandfather. Young Lyndon's fond memories of family gatherings at the Martin house and his daydreams of becoming a rancher were the genesis of his desires to one day own this piece of the Texas Hill Country.

In 1951, Johnson inherited the run-down ranch, and soon began what became a continual series of improvements to the newly christened "LBJ Ranch". Johnson applied his prodigious energy and determination to creating a showcase 2,700 acre ranch, complete with 400 head of registered Hereford cattle. At the same time, he acquired the image of a western rancher and a place to recharge his batteries. Both of these contributions from the LBJ Ranch would be invaluable as he entered the harsh spotlight of national politics.

Johnson remained connected to the ranch throughout his political career and ultimate rise to the presidency. He made daily phone calls to get full reports on the comings and goings of his beloved ranch. These routine discussions helped maintain Johnson's sense of connection and control during turbulent times for the nation.

Cattle were painstakingly pampered and groomed for shows in the Show Barn. Prize winning cattle would command higher prices when sold as registered bulls or show calves to 4-H Club members, Future Farmers of America (FFA) students, and other ranchers. Johnson was keenly aware of the practical advantage to winning such prizes. He would often drive past the scale and loading chute near the Show Barn, telling his guests, "That's where the cattle go out and the money comes in."

During his presidency, Johnson signed into law almost 300 bills dealing with environmental protection and other resource conservation issues. At the LBJ Ranch, he utilized new ranching practices that demonstrated these stewardship concepts and increased the revenue potential of the ranch. Pastures were fenced to allow grazing rotation, fields were terraced to prevent soil erosion, and

*The Texas White House was officially opened to the public on August 27, 2008. The first room which is available for public tours is the President's Office, restored to its 1963-1968 appearance.*

Courtesy of LBJ Museum - Ron Sprouse



“tanks” or ponds were constructed to catch surface water run-off. More than 1,100 acres were planted in improved varieties of grasses such as King Ranch Bluestem, Buffalo grass, Coastal Bermuda, and Alisa grass. Johnson built one of the first liquid fertilizer plants in this area and had the ranch soil analyzed to determine the proper ingredients for the fertilizer. With additional irrigation and fertilizer, a rancher could graze two cows and calves per acre, instead of the one cow and calf per sixteen acres that was more typical for an unimproved pasture. The LBJ Ranch became the flagship of the various ranching properties owned or leased by President Johnson.

Returning home to retire in 1969, Johnson continued to draw strength and solace from this ranch along the Pedernales River. His desire to leave a legacy of his accomplishment and to demonstrate the cultural and conservation practices associated with ranching prompted President and Mrs. Johnson to donate a portion of the LBJ Ranch to be added to the newly established Lyndon B. Johnson National Historic Site. Johnson stipulated to park planners that the LBJ Ranch remain a working ranch, and not a “sterile relic of the past.”

To that end, the National Park Service maintains a herd of Hereford cattle descended from Johnson’s registered herd and manages the ranch lands as a living demonstration of ranching the LBJ way.

#### Sources for Texas Notables:

**LBJ Ranch, National Park Service**

Lyndon B Johnson National Historic Park

<http://www.nps.gov/lyjo/>

<http://www.nps.gov/lyjo/planyourvisit/lbjranching.htm>

**Texas Bluebonnets**

<http://plantanswers.tamu.edu/flowers/bluebonnet/bluebonnetstory.html>

**Armadillos**

Window on the Woodlands

[www.flex.net/~lonestar/wild.htm](http://www.flex.net/~lonestar/wild.htm)

**Whooping Cranes**

**Aransas Wildlife Refuge**

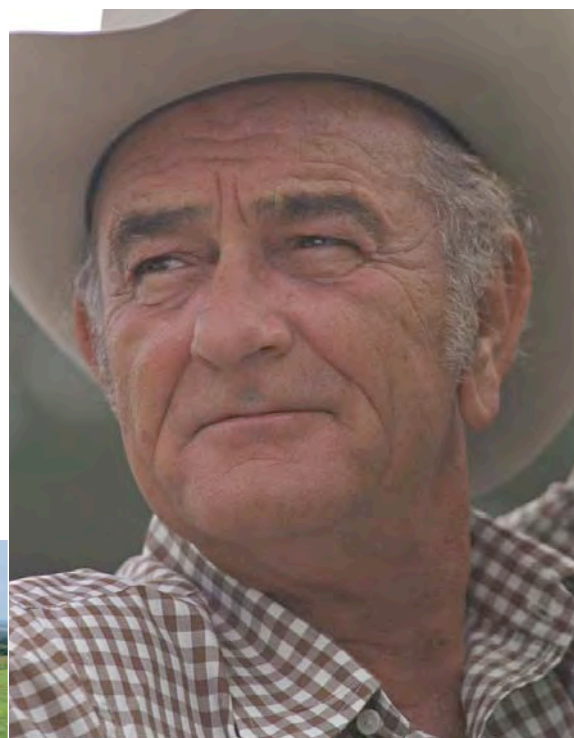
[www.wildtexas.com](http://www.wildtexas.com)

**San Antonio Botanical Garden**

[www.sabot.org](http://www.sabot.org)

**Padre Island**

[www.worldbirdingcenter.org/about\\_us/](http://www.worldbirdingcenter.org/about_us/)



Frank Wolfe

*Above: Lyndon Johnson at the ranch (1972).*

*Left: The cattle on the LBJ Ranch are descended from the same bloodline as the herd that Lyndon Johnson owned. They look more like 1960s Hereford cattle and so they can be called "history on the hoof."  
Lyndon B. Johnson National Historical Park*



Laurence Parent

# *Lady Bird Johnson*

## An Environmental Legacy

Edited by Emily LeDuc



Courtesy of LBJ Presidential Library by Frank Wolfe

Lady Bird Johnson is shown in the Texas hill country amid wildflowers called “Indian blankets.”

In 1965, Lyndon Johnson took the presidency after one of the largest landslide victories in history. He and Lady Bird Johnson came to the White House with a steadfast dedication to offer strong leadership during an uncertain time. This leadership was solidified by the passing of a series of domestic programs under their “Great Society” concept. Two main goals of the Great Society social reforms were the elimination of poverty and of racial injustice. Spending programs that addressed education, medical care, urban problems, and transportation were launched. The Johnson administration quickly passed legislation supporting education and Medicare programs. Johnson also passed the voting rights act of 1965, which enabled African Americans to register and vote.

As her husband’s most loyal and trusted adviser, Lady Bird was poised to play a significant role in policymaking, furthering the evolution of the role of First Lady even beyond what Eleanor Roosevelt accomplished.

Lady Bird had already made a significant impact on the nation on the campaign trail in 1964. Because of her roots in the deep south and turmoil over civil rights, Lady Bird embarked on her own campaign in support of her husband through the most volatile southern states which were deemed too dangerous for the candidate to tour himself. This whistle stop tour thrust Lady Bird Johnson into the spotlight and established her as a fully engaged participant in politics rather than just a figurehead. She was able to

garner support from southern voters through her compassion for and connection to southern tradition while still advocating her husband’s political goals and defending civil rights. And thus, in 1965, the first southerner in one hundred years was elected into the office of the president.

The campaign had taken Lady Bird and Lyndon Johnson across the country. As they traveled, Lady Bird began to notice the prevalence of billboards and the growing incidence of junk yards along our nation’s roads. She felt that our nation’s highways and byways should reflect the natural beauty of the landscape and the pride of its people, and that within the context of the Great Society concept, conservation and beautification played a major role. She

also felt these efforts were inexorably linked with others of equal importance such as recreation and pollution, mental health, the crime rate, rapid transit, poverty, and parks. In addition, she firmly believed that efforts to beautify our country would bring people together and help calm the national tensions.



**It began at home.** Lady Bird worked to beautify her immediate surroundings by planting trees and flower beds in and around Washington, DC. Her efforts targeted both heavily visited areas and inner city locations with equal vigor, and she hoped this effort would inspire other cities to follow with similar efforts. Soon, Lady Bird's local efforts would evolve into a nationwide campaign to beautify our nation's roads inspired by her recent travels.

The highway beautification act of 1965 was the largest legislative effort ever to be spearheaded by a first lady. The act limited the ability of companies to advertise along public roads, and required junkyards to fence in their facilities so as not to interfere with the natural landscape.

For Lady Bird, the term "beautification" failed to capture the true meaning behind her purpose. She felt that it conveyed a merely cosmetic concern, when, in reality, the program encompassed a much larger vision – one that was about much more than cosmetics. Hers was a philosophy that embraced environmental concepts such as preservation, conservation, and other environmental concerns far ahead of her time. It was her purpose to ensure an environmental legacy that future generations could be proud of.

Mrs. Johnson was a savvy politician, bringing the press along on her beautification tour. While visiting important sites, media coverage made the public aware of her cause not only to improve landscaping along our roadways, but also to preserve other natural landscapes, enhance national parks, and protect historic places.

The beautification bill sparked a fierce battle with the billboard industry, but in the end a compromise was reached, and the act passed in October of 1965. In his remarks at the signing of the Act, Lyndon Johnson stated,

*This bill does more than control advertising and junkyards along the billions of dollars of highways that the people have built with their money—public money, not private money. It does more than give us the tools just to landscape some of those highways. This bill will*



Courtesy of LBJ Presidential Library

**"We walked the problem of the environment on to center stage and put it on the national agenda—clean water, clean air, the amenities in all parks, in urban areas, all of that became a part of the national thinking."**

—Lady Bird Johnson

*bring the wonders of nature back into our daily lives. This bill will enrich our spirits and restore a small measure of our national greatness.*

The Johnson Administration was the most active in conservation since the time of the Roosevelts largely due to Lady Bird Johnson. Legislative initiatives such as the Wilderness Act of 1964, the Land and Water

“Lady Bird Johnson legitimized environmental issues as a national priority. The attitudes and policies she advanced have shaped the conservation and preservation policies of the environmental movement since then.”

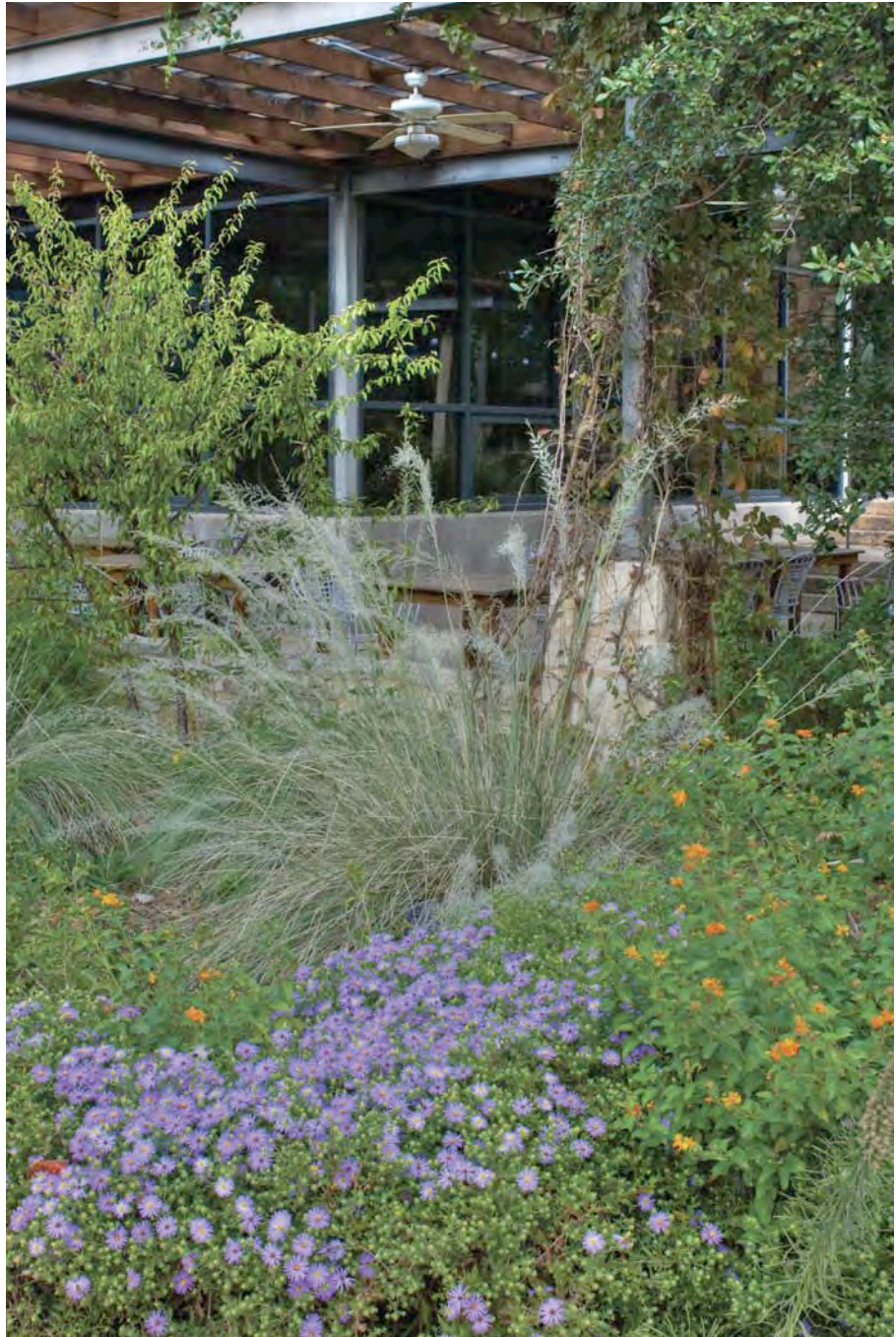
Historian Rita G. Koman  
Organization of American Historians

Conservation Fund, and the Wild and Scenic Rivers Program were all accomplishments of the administration. A total of 200 laws relevant to the environment and many additional National Parks were a result of the Johnson’s efforts. Mrs. Johnson also had influence in preventing the construction of dams in the Grand Canyon and in creating Redwoods National Park.

In the years following 1965, war in Vietnam escalated to even greater proportions and the pressure on LBJ was enormous. Lady Bird, concerned for her husband’s health, asked him not to seek re-election in 1968. The following months would bring more unrest, more blood, and more chaos with the assassination of Martin Luther King, Jr., the ensuing race riots, and the assassination of Robert Kennedy during his campaign for the White House. The Johnsons would exit quietly as Richard Nixon took over the responsibility of Commander in Chief.

### For Lady Bird, this was no swan song.

She continued her environmental work and in the early 1970’s founded the National Wildflower Research Center in Austin, Texas. With fellow founder and old friend Helen Hayes, she created the only national nonprofit organization dedicated to the preservation and re-introduction of native wildflowers, trees, shrubs, vines, and grasses in planned landscapes.



The center’s mission is to promote the sustainable use and conservation of wildflowers, plants, and landscapes. While “sustainable use” may sound dubious at first, wildflower populations along with other native plants play a very important role in water conservation, while native landscapes minimize the use of damaging fertilizers and insecticides that runoff and pollute groundwater and the atmosphere. Urban development, the explosion of agribusiness, and introduction of invasive species all contribute to the dramatic loss of native North American habitats across our nation. This ultimately threatens biodiversity and puts our world at risk to lose species that could potentially benefit human life, especially in the fields of medicine and nutrition.

Wildflowers and native landscapes are much more than just window dressing. They help conserve water, reduce mowing costs, provide habitat for birds, butterflies, and other wildlife, protect the soil, and reduce the use of fertilizer and pesticides. Native landscapes are also highly practical. They are easier to maintain, are resistant to infestations and diseases, and provide a broad palate of species to work from for any purpose, large or small. Large commercial applications are especially suited to native landscaping due to low maintenance costs and ease of care.

From the intimate public gardens to the vast woodlands and blooming meadows, the Lady Bird Johnson Wildflower Center embodies Lady Bird's vision for beautiful native surroundings. The center itself is an affiliated research unit with the University of Texas at Austin, and is one of our nation's most well respected research centers and advocates for native plants.

The gardens display native plants of the Central Texas Hill Country, south and west Texas, while the Plant Conservation Program protects the ecological heritage of Texas by conserving its rare and endangered flora. The

center also maintains a Native Plant Information Network, a database of more than 7,200 native species available online. The center provides a Land Restoration Program that applies knowledge of ecological processes to restoring damaged landscapes. In addition, the Center's education programs for children and adults teach people about their natural surroundings and how to grow native plants in their own backyards.

By the 1990's, having outgrown its original location, Lady Bird purchased a larger parcel of land, 42 acres, and relocated the center. In 1998 it was officially re-dedicated in her honor as The Lady Bird Johnson Wildflower Center. Lady Bird continued to be active there well into her seventies. It remains a serene and beautiful testament to the importance of native plants and natural landscaping and to an environmental legacy our children can be proud of.

**"Native plants give us a sense of where we are in this great land of ours."**

—Lady Bird Johnson



# *A Vision of Loveliness*

Lady Bird Johnson strived to bring her vision of loveliness to America's roads, parks, and open spaces. We invite you to stroll through her wildflower garden as she shares this passion in her own words.

*Peter Daniel Davis*





“The environment is where we all meet; where all have a mutual interest; it is the one thing all of us share. It is not only a mirror of ourselves, but a focusing lens on what we can become.”

“My heart found its home long ago in the beauty,  
mystery, order, and disorder of the flowering  
earth.”

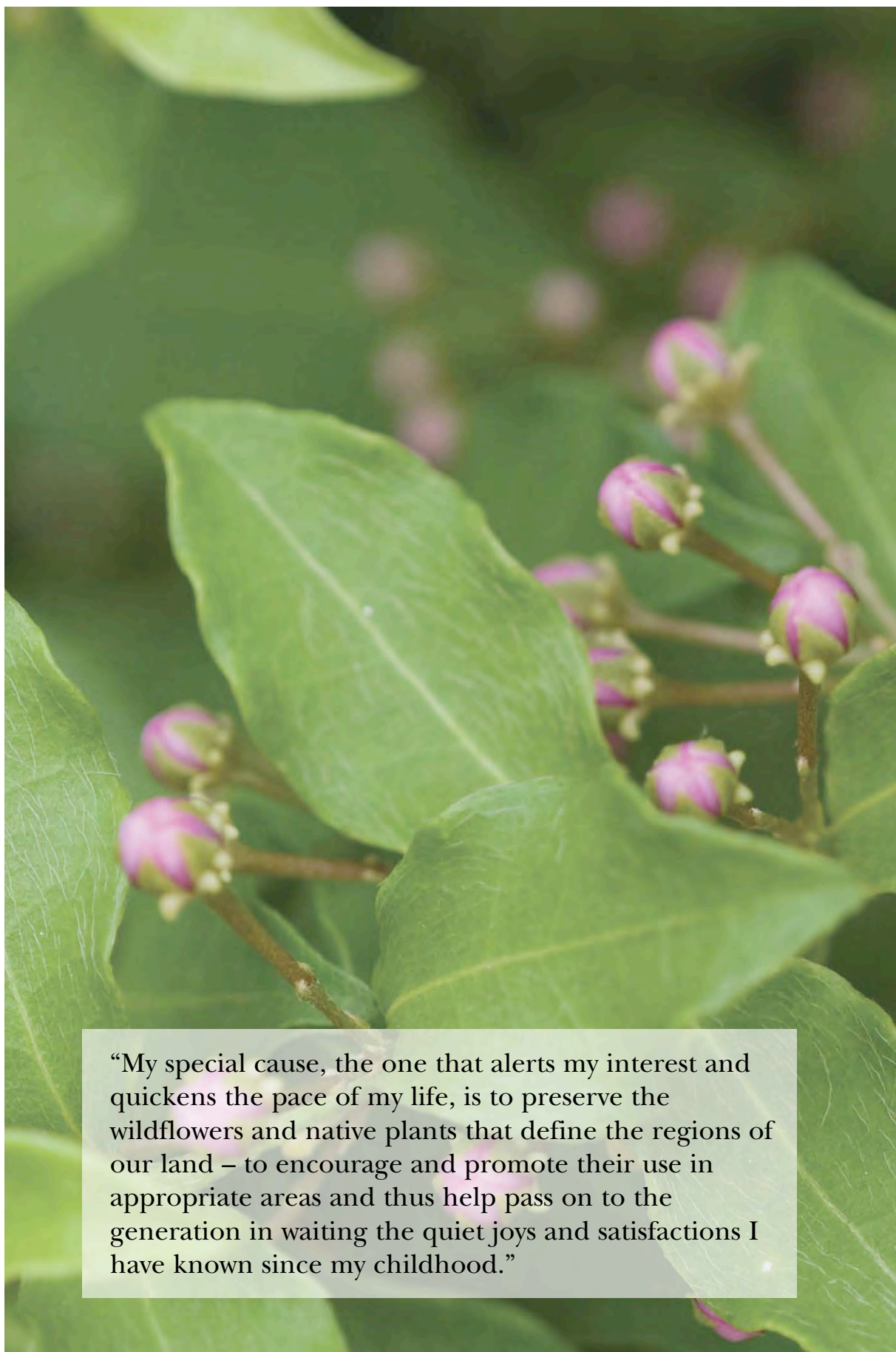




“Some may wonder why I chose wildflowers when there are hunger and unemployment and the big bomb in the world. Well, I, for one, think we will survive, and I hope that along the way we can keep alive our experience with the flowering earth. For the bounty of nature is also one of the deep needs of man.”



“Wherever I go in America, I like it when the land speaks its own language in its own regional accent.”



“My special cause, the one that alerts my interest and quickens the pace of my life, is to preserve the wildflowers and native plants that define the regions of our land – to encourage and promote their use in appropriate areas and thus help pass on to the generation in waiting the quiet joys and satisfactions I have known since my childhood.”

“As I look back across a span of more than seven decades, I'm grateful for the joy that nature has given me and for the lifetime of experiences that led me to believe that I might repay a part of the debt I've incurred for beauty enjoyed.”



*About the  
Photographer . . .*

## Bruce Leander

Bruce Leander, a local amateur photographer, approached the Lady Bird Johnson Wildflower Center with a proposition. In return for unlimited access to the grounds, he would make all of his work available to them. The Center readily agreed.

Using a digital camera, Bruce captures his images at dawn in the golden light of "magic hour" before the wind kicks up along the Texas plains." On any day you can take a picture of something" he says. Local residents such as snakes and spiders sometimes even volunteer their services.

Bruce's incredibly detailed work is displayed around the center so that visitors and staff alike have the opportunity to view his unique perspective. Because of his accessibility, these images offer a view of the center and it's wildlife that even regular visitors may never see.

Nature is ever changing and Bruce Leander aims to capture it one flower at a time.

For information on GSA Multiple Award Schedule 67, Cameras, Photographic Printers and Related Supplies and Services, call (212) 264-0868.





# What's the Alternative?

## The Role of Alternative Fuel Vehicles in Today's Energy Climate

The term "alternative fuel" has been used to describe any fuel other than gasoline or diesel fuel suggested for transportation use. Today's situation resembles, in many ways, the beginning of the twentieth century, when buyers of early automobiles could choose among internal combustion vehicles, steam vehicles, or electric vehicles. Similar to today, the early 1900's saw great debates about which fuels were best suited for transportation uses, and the availability of fuels and the advantages and drawbacks of the vehicles dictated the choices that consumers made. As history tells us, the internal combustion engine operating on gasoline (and later diesel) was the final winner in that debate.



Alternative fuels have been used extensively in the past in transportation. As mentioned before, electric vehicles enjoyed some measure of popularity in the early 1900's, and both liquefied petroleum gas vehicles and natural gas light- and medium-duty trucks have been in use since the 1950's. The current interest in alternative fuels stems from the ability of these fuels to provide the U.S. with energy security benefits (less dependence on foreign oil for transportation energy needs) and environmental benefits. Additionally, the U.S. could see economic benefits related to reduction of the trade deficit and the production and use of domestically-produced fuels. Therefore, programs that facilitate the development of alternative fuels and alternative fuel vehicles are vital to our national interests.

With increased concern over a looming energy crisis, finding alternative energy sources to power our homes and vehicles has become critical. With the United States leading the world in the emission of greenhouse gases and the growing contentious climate over foreign oil,

alternative fuel vehicles (AFV's) in particular have come to the forefront of the nation's consciousness.

An alternative fuel vehicle is defined as a vehicle that is powered from resources not derived from petroleum, and that produce less pollution than gasoline or diesel fuels. There are two basic types of alternative fuel vehicles, Flexible Fuel Vehicles and Dedicated Fuel vehicles.

**Flexible fuel vehicles (FFVs)** have only one fuel tank. Flexible fuel vehicles are designed to operate on alcohol, gasoline or any combination of both. The vehicle's fuel system automatically adjusts the engine, depending on what type of fuel or mixture is being used.

**Dedicated fuel vehicles** run on one fuel only. A dedicated AFV has one fuel system and is designed to run exclusively on alternative fuel. Dedicated vehicles are available with CNG, LPG, or electric.

## Alternate Power Sources

**Hybrid-electric vehicles (HEVs)** combine the benefits of gasoline engines and electric motors and can be configured to obtain different objectives, such as improved fuel economy, increased power, or additional auxiliary power for electronic devices and power tools. Some of the advanced technologies typically used by hybrids include:

**Regenerative Braking.** The electric motor applies resistance to the drivetrain causing the wheels to slow down. In return, the energy from the wheels turns the motor, which functions as a generator, converting energy normally wasted during coasting and braking into electricity, which is stored in a battery until needed by the electric motor.

**Electric Motor Drive/Assist.** The electric motor provides additional power to assist the engine in accelerating, passing, or hill climbing. This allows a smaller, more efficient engine to be used. In some vehicles, the motor alone provides power for low-speed driving conditions where internal combustion engines are least efficient.

**Automatic Start/Shutoff.** Automatically shuts off the engine when the vehicle comes to a stop and restarts it when the accelerator is pressed. This prevents wasted energy from idling.

**Ethanol** is a liquid alcohol fuel that can be made from corn, grains, or agricultural waste. Ethanol is a renewable energy source and is domestically produced. Ethanol powered vehicles have good performance and emissions characteristics. Ethanol is stored in a liquid form, making it very similar to gasoline in handling procedures. Ethanol is most commonly found in a mixture of up to 85 percent ethanol and 15 percent unleaded gasoline (E85).

**Natural gas** is a domestically available, odorless gas. Compressed natural gas (CNG) is typically stored and dispensed at 3,000 to 3,600 psi. (Buses only).

**Biodiesel** is a clean burning alternative fuel, produced from domestic, renewable resources. Biodiesel contains no petroleum, but it can be blended at any level with petroleum diesel to create a biodiesel blend. It can be used in compression ignition (diesel) engines with no major modifications.

As our nation's largest consumer, the Federal Government as a whole is setting an example through its alternative fuel vehicle regulations related to fleet operations.

## Federal Requirements

Federal policy mandates the use of light-duty AFVs in fleets operating in metropolitan areas with 20 or more vehicles, which are capable of being centrally fueled, barring exceptions. seventy-five percent of all covered light-duty vehicle acquisitions must be AFVs.

Federal agencies are also required to exercise leadership in petroleum reduction through improvements in fleet efficiency and the use of alternative fuel vehicles and alternative fuels. Each agency operating 20 or more motor vehicles within the United States is mandated to reduce its entire vehicle fleet's annual petroleum consumption by at least 20 percent. Each agency operating 20 or more motor vehicles within the United States were mandated to reduce its entire vehicle fleet's annual petroleum consumption by

## Commonly Used Alternative Fuel Acronyms

AFV	Alternative fuel vehicle
FFV	Flexible fuel vehicle
HEV	Hybrid electric vehicle
LEV	Low emission vehicle
CNG	Compressed natural gas
E85	Blend of up to 85 percent ethanol and 15 percent gasoline
EV	Electric vehicle
LPG	Liquefied petroleum gas (propane)
EPACT	Energy Policy Act of 1992
CAAA	Clean Air Act Amendments of 1990
CFFP	EPA's Clean Fuel Fleet Program
CNG2	Bi-fuel, compressed natural gas or gasoline
B2O	A blend of 20 percent by volume biodiesel with 80 percent by volume petroleum diesel

purchasing fuel efficient vehicles, alternative fuel vehicles and alternative fuels. Agencies must also work to substitute cars for trucks when possible, decrease fleet sizes overall, and decrease overall miles traveled by vehicles.

Federal fleets in the specific cities of Atlanta, Chicago, Milwaukee, and Denver must acquire low emission vehicles (LEVs). GSA (as well as other agencies) is responsible for providing leadership to the other federal agencies in implementing programs to meet the goals of this order.

## Drive Green with GSA

GSA provides federal agencies with clean, alternative fuel vehicles. GSA Automotive has purchased over 146,000 AFVs since 2000 directly from automotive manufacturers for our federal customers - more than any single

organization in the U.S. GSA offers a variety of alternative fuel vehicles (AFVs) to assist in meeting your acquisition and leasing needs. These vehicles are production line models with all of the features and amenities you would expect to get from diesel or gasoline powered vehicles. AFVs have the added benefit of reducing harmful emissions in the air and reducing our nation's dependence on foreign oil.

Alternative fuels are defined as methanol, denatured ethanol mixtures containing up to 85 percent methanol or denatured ethanol, natural gas, propane (liquefied petroleum gas), biodiesel, hydrogen, and electricity. There are both legislative and regulatory mandates that require AFV acquisitions for use in federal fleets.

Electricity, ethanol, natural gas, and propane are available as motor fuels for light-duty vehicles. GSA is fuel neutral and offers a wide range of vehicles capable of operating on these types of alternative motor fuels.

## Availability of Alternative Fuels

While the number of alternative fueling stations in the U.S. is increasing, their total numbers are still low and finding fuel can be difficult. Refueling site information is available through the National Alternative Fuels Hotline or through its Internet site ([www.e85refueling.com](http://www.e85refueling.com)).

## Forging Ahead

Customer agencies interested in buying AFVs can submit orders in an electronic file form or through AutoChoice. Customers interested in leasing ethanol and natural gas AFVs can contact their servicing GSA Fleet office or call (703) 605-5630 for more information.

GSA's Motor Vehicle Management' Web site includes miles per gallon (MPG) ratings for light-duty vehicles, as well as the available models and fuel types for the current model year, along with the emissions ratings. This assists agencies in evaluating the fuel economy efficiencies for light-duty vehicles that meet their mission.



The Department of Energy (DOE) provides funding assistance to federal fleets for electric vehicle acquisitions. DOE will fund up to 50 percent of the incremental cost of an electric vehicle, not to exceed \$10,000 per acquisition.

GSA Automotive can assist you in selecting the right AFV for your agency's fleet. To learn more about the different alternative fuel vehicles currently available, and the current vehicle manufacturers on contract, visit [www.gsa.gov/automotive](http://www.gsa.gov/automotive) or call (703) 605-CARS (2277).

### Resources

For more information on AFV's and alternative fuel sources, contact these organizations:

National Alternative Fuels and Advanced Vehicles  
Data Center

[www.eere.energy.gov/afdc](http://www.eere.energy.gov/afdc)

The U.S. Department of Energy  
Energy Efficiency and Renewable Energy Vehicle  
Technologies Program  
EERE Information Center  
(877) 337-3463

[www.eere.energy.gov](http://www.eere.energy.gov)

Environmental Protection Agency Web site:

[www.epa.gov](http://www.epa.gov)

[www.e85fuel.com](http://www.e85fuel.com)

GSA AFV Web site:

[www.gsa.gov/afv](http://www.gsa.gov/afv)

The background of the entire page is a photograph of the Chicago skyline. In the foreground, the Navy Pier building with its iconic green dome and two towers is visible. To the right, a sailboat with a white and blue sail is on the water. In the background, several skyscrapers, including the Willis Tower, rise against a blue sky with some clouds.

# FEDFLEET<sup>2009</sup>

## *Winds of* **CHANGE**

### **The 9th National Motor Vehicle and Aviation Workshops and Exposition**

The Federal Fleet Policy Council, GSA's Office of Governmentwide Policy, the Interagency Committee for Aviation Policy, and GSA Fleet are proud to host FedFleet 2009, the 9th National Motor Vehicle and Aviation Workshops and Exposition. This prestigious conference will be held July 28 – 30 at the Sheraton Hotel & Towers and the Navy Pier located in Chicago, Illinois.

FedFleet 2009 will include the GSA Automotive Federal Vehicle Standards breakout sessions and vendor presentations. The agenda includes extensive Aviation Workshop sessions and an all-day Basic Fleet Management class. This comprehensive collection of fleet management, automotive procurement and aircraft related educational sessions truly makes FedFleet 2009 a one-stop experience for Fleet and Aviation Management professionals.

We are confident that you'll find FedFleet 2009 a quality event and an excellent value for the nominal training and travel dollars involved.

Save the date and register today at [www.fedfleet.org](http://www.fedfleet.org)

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# Serving with Pride

## Products and Services from AbilityOne

By Stephanie Lesko



## Administrative Services

The AbilityOne Program provides superior administrative services to federal customers. Our contractors are experienced in the latest technologies and software and provide a variety of options to meet your needs.

*"Working with [the AbilityOne Program] not only is something that feels right, but also it is right on the bottom line," said Jim Foley, the Chief of the Facilities and Administrative Management Branch of the U.S. Environmental Protection Agency's Region II. "We have 22 years of continuity on our contract and that is something unique in government service contracts."*

In addition to the EPA, the AbilityOne Program has been providing office support to the government for over two decades and operates in more than 80 locations nationwide.

Administrative services include:

- Call centers
- Full-service copy centers
- Mailroom, digital mail, secure mail and mail delivery services
- Receptionists
- Help Desks services
- Clerks, including accounting, mail, medical record and general



- Warehousing
- Shipping and receiving
- Fulfillment
- Moving services
- Data entry
- Programming
- Technical support
- Word processing
- Scanning and digital content management
- Microfilming and imaging
- Temporary/Indefinite Delivery Indefinite Quantity (IDIQ) services
- Secure document destruction

## Food Services

During the last decade, major food service awards (Ney, Hennessy, Local Command) and half of the U.S. Navy's "5" Star accreditation awards for food services have gone to AbilityOne Program facilities. That's because we are leaders in the commercial food service industry and combine our experience with a thorough knowledge of DoD practices. Government food services needs have been met by the AbilityOne Program for the past two decades. We currently manage and support over 100 locations and serve more than 25 million meals a year.

Food Services include:

- Performance Work Statement drafting
- Full open partnering
- Budgetary Support
- Quality Assurance Management
- DoD administrative accounting
- Dining hall customer support
- Contingency (full food) support as needed for troop movements
- Emergency and major inspection/exercise support
- Kitchen and dining facility sanitation
- Inventory management (order, receive, rotate)
- Equipment maintenance (minor and major)
- Flight kitchen, box lunch, and ground meal support
- Catering, event planning, and implementation



*"My feeling is that the quality is exceptional," said Larry Rojas, Commander of the 28th Contracting Squadron at Ellsworth Air Force Base in South Dakota. "It's extraordinary."*

## Grounds Maintenance

The AbilityOne Program has had a partnership with the government on grounds maintenance and landscaping for more than a quarter century. Operating in more than 175 locations, the AbilityOne Program has been sought after by federal buildings and military installations, from small satellite locations to complete base-wide projects encompassing thousands of acres.

Services include:

- Full scope grounds maintenance
- Landscape design, install, and maintenance
- Integrated pest management
- Fertilization and weed control
- Irrigation maintenance
- Industrial type vegetation control
- Flight line and air field maintenance
- Turf renovations, including grade, seed, sod, and hydro seeding
- Tree and shrub pruning and maintenance
- Parking lot sweeping and maintenance



- Security and perimeter fence maintenance
- Design installation of seasonal and specialized displays
- Interior plant and floral design
- Green waste management and recycling
- Slope management
- Snow management including removal and the application of deicers

*"[AbilityOne] stands as exemplary contractors that are concerned with more than the 'bottom line,'"* said Colonel Randal Fullhart, Commander of the 92nd Air Refueling Wing of Fairchild Air Force Base in Washington State. *"What stands out to me is both the quality of the work and the attitude of the people. They daily rise to overcome challenges, do outstanding work and leave a smile as their calling card."* Whether trimming lawns or implementing integrated pest management technologies, we adhere to environmentally sound maintenance practices at all our sites and all our contractors meet OSHA requirements.

## Apparel and Equipage

Contractors for the AbilityOne Program have a thorough knowledge of civilian and military textile and equipage requirements. Using state-of-the-art commercial industry practices and a national network of experienced contractors and material suppliers, we provide superior products to the government in a simplified contracting environment.

*"DSCP Clothing and Textiles considers the AbilityOne Program to be in our cadre of 'Suppliers of Choice,'"* said Kurt Wilson, Colonel USAF, Director Defense Supply Center in Philadelphia Clothing and Textiles. *"Their commitment to state-of-the-art manufacturing, quality assurance controls and on time deliveries places them in the top tier of our manufacturing base. I know that I can always rely on AbilityOne to support our men and women in uniform with the very best clothing and textile products. I am especially pleased that I am able to support their mission and provide jobs for so many people with severe disabilities."*



Federal customers have relied on AbilityOne's expertise in:

- Complex garment construction
- Prototyping and development
- Product designs
- Initial fielding to sustainment
- Life-cycle management
- Product distribution
- Digitizing patterns
- Special measurements (non-tariff sizes)
- Computerized marker making
- Automated cutting systems
- Small or limited run productions
- Providing alternative solutions

*"We were able to meet the requirements of the American warfighter with the help of the folks in the AbilityOne Program,"* said Thomas Bouchard, Supervisory Contract Specialist at the U.S. Army Soldier Systems Center. *"We use the AbilityOne Program because they provide quality items and services to us."*

## Food Processing and Packaging

Contractors for the AbilityOne Program provide superior commercial food products and have significant experience with U.S. Department of Agriculture (USDA) and Department of Defense (DoD) requirements. We are experts in product development, alternative packaging and packaging improvement. We have on-time delivery performance second to none and operate under ISO quality systems. In addition to fulfilling many of the USDA and DoD's needs, AbilityOne food products have helped thousands of schools and homeless shelters throughout the U.S. and have supported humanitarian relief programs in more than 30 countries.

*"Today's AbilityOne suppliers provide quality food products to the U.S. military dining halls and ships equivalent to the best commercial brands in the market,"* said John Steenberge of the Defense Supply Center's Directorate of Subsistence in Philadelphia.

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Providing styles comparable to virtually every commercial product available, SKILCRAFT® delivers just the right instrument for federal customers special needs. Whether a fine writing instrument with an executive appeal or a daily use ballpoint pen, we have them all:

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# Computers for Learning

## Closing the Loop





### ***How are computers connected to the environment?***

People are now concerned more than ever about the effect of the environment on their health. The popularity of bottled water by itself supports that belief. Although some people just prefer the taste of bottled water over tap water, many drink bottled water because they think it is safer than water that comes from a series of pipes that may be constructed with toxins.

Most people are aware that lead, mercury, and cadmium poison the environment and can have deleterious effects on human health. However, some of the same people will say that lead poisoning comes from lead paint, cadmium poisoning comes from exposure to silver solder, and mercury poisoning comes from eating too much fish.

However, computers and computer peripherals inappropriately discarded also contribute to a waste stream of toxins. According to the Federal Electronics Challenge, managed by the Environmental Protection Agency and the Office of the Federal Environmental Executive, cathode ray tubes, circuit boards, batteries, and other electronic components often contain toxic materials such as lead, mercury, and cadmium.

### ***How can federal agencies manage the computer waste stream?***

Some federal property personnel may think that the best (or only) way to diminish the computer waste stream is to recycle the equipment. However, recycling still contributes waste materials which negatively impact the environment. Reuse, on the other hand, avoids both the waste of potentially good equipment as well as having no impact on the environment. Unfortunately, reuse is often overlooked by these agencies even though it is supported by the Federal Electronics Challenge as a viable method of managing the electronic waste stream.

Generally, recycling is an abandonment and destruction procedure that is the last step in the normal disposal process. When property is reported to GSA as excess, the property is screened for federal and state agencies for transfer. If property is not selected, then the property is available for sale to the general public. If the property fails to be sold, abandonment and destruction then becomes the viable option. The only instance where abandonment and destruction is authorized at the beginning of the disposal cycle is when the property has no commercial value or the cost of its continued care and handling exceeds the estimated sales proceeds.

### ***How can agencies put their computers to reuse?***

When a federal agency determines that it has computers that are no longer needed by the agency and the computers do not qualify for immediate abandonment and destruction, they can make the computers available for transfer to needy educational organizations under one of two authorities.

Under Title 15 USC 3710 (Stevenson-Wydler Technology Innovation Act of 1980 – Section 303 amended on 14 Feb 1992), federal agencies can transfer the computers directly to a school or educational non-profit activity.

Under Title 40 USC (the recodification of the Federal Property and Administrative Services Act of 1949), federal agencies can report their excess computers to GSA for possible reuse by another federal agency, its contractor or grantee, or to a state agency for surplus property (SASP) for further distribution to an eligible donee such as a school or educational non-profit organization.

Both of these authorities are discussed and encouraged under Executive Order 12999, “Educational Technology: Ensuring Opportunity for All Children in the Next Century.”



### ***Who owns the property?***

When an agency transfers a computer to a school or educational nonprofit activity under Title 15 USC [the CFL Program], the holding federal agency releases its ownership of the computer and the recipient activity gains ownership of the property upon receipt.

When an agency transfers a computer under Title 40 USC to a SASP, the title to the computer is vested with the United States Government until a one-year period of restriction is met. During the period of restriction, the donee has conditional title to the computer that allows the donee to take the computer into its custody and use it. After the period of restriction is met, the donee gains title to the computer in accordance with the Federal Surplus Personal Property Donation Program.

### ***What is the Computers for Learning (CFL) Program?***

CFL is a web-based tool established to facilitate and promote EO 12999. When Federal agencies report their excess computers electronically to GSA, they must make a choice of how they want to make their computer related equipment made available to schools and educational nonprofit organizations. They must decide to (1) make their computer related equipment available for direct transfer through the CFL Program, or (2) allow the computers to go immediately through the normal disposal cycle to make the equipment available for transfer through State Agencies for Surplus Property (SASPs) via the Federal Surplus Personal Property Program. GSA then posts the reported property on its Web sites – [www.computersforlearning.gov](http://www.computersforlearning.gov) for

viewing by educational organizations [under Option 1] and [www.gsaccess.gov](http://www.gsaccess.gov) for viewing by the SASPs [under Option 2].

Under Option 1, educational organizations register online through the CFL web site –

[www.computersforlearning.gov](http://www.computersforlearning.gov), then search for and select the equipment they need through use of a virtual shopping cart and checkout process. The system notifies federal agencies by email when an educational organization has requested their property for transfer. The federal agency then allocates the property. If there are competing requests, Executive Order 12999 directs federal agencies to give preference to schools and nonprofit organizations located in the federal enterprise communities and empowerment zones established in the Omnibus Reconciliation Act of 1993, Public Law 103-66. Once an allocation is made, the system notifies the school by email of the federal agency's allocation based on registration information the school provided during registration.

After allocation, the receiving school or non-profit can pick up the property within a certain time period. The school or educational non-profit organization is responsible for shipping and handling costs.

### ***Why use CFL?***

Under Executive Order 12999, federal agencies can transfer their excess computers to educational organizations directly without first registering on the CFL Web site. However, the CFL web site can help you make the transfer. Here are some things to consider: The CFL database –

- Screens educational organization applicants for preliminary eligibility during the registration process. For example, the organization must support only grades pre-kindergarten through 12;

schools must have a National Center for Education Statistics (NCES) number; educational nonprofits must certify their status as a nonprofit with a 501 tax-exempt ID and that they are established strictly for educational purposes.

- Allows a federal agency to compare schools by various need criteria, such as schools in enterprise communities and empowerment zones, student-to-computer ratio and participation in the school lunch program
- Automatically adds the transfer to the agency's Annual Non-Federal Recipients Report.

After allocation, the receiving school or nonprofit can pick up the property within a certain time period. The school or educational nonprofit organization is responsible for the shipping and handling costs.

### ***What is the Post Transaction Module?***

Federal agencies that transferred their excess computers to schools or educational nonprofit activities directly without going through the CFL Web site can access the Post Transaction Module (PTM) in CFL to add such transfers to their agency's Annual Non-Federal Recipient's Report.

If a federal agency transferred computers to a school that is not registered on the CFL Web site, the federal agency can simply register the school by filling in basic information, such as the school's name, street address, city, state, zip code, and phone number. The next time the agency transfers computers to the school, the information about the school will be available and obtainable by simply putting in the zip code in the PTM.

For more information on CFL, contact:

[computers.learning@gsa.gov](mailto:computers.learning@gsa.gov)  
(866) 472-9161

# Computers for Learning

## Registering Schools to Receive Excess Government Computer Equipment

Your child's school may be eligible to receive computers and related equipment that are no longer needed in the federal government. To participate in the program, schools must be registered at [www.computersforlearning.gov](http://www.computersforlearning.gov).

This flyer provides the information needed for a school to register in the program.



**Please share this information with your local school administration.**

### About the Computers for Learning Program:

General Services Administration (GSA) operates the Computers for Learning (CFL) application, [www.computersforlearning.gov](http://www.computersforlearning.gov), which is supported by Executive Order 12999 - Educational Technology: Ensuring Opportunity for All Children in the Next Century. The Web site offers a convenient way to:

- Determine eligibility of your school
- Identify computer equipment available for transfer
- Request selected equipment

For more information, visit:

[www.gsa.gov/computersforlearning](http://www.gsa.gov/computersforlearning).

### How it Works:

Federal agencies report excess property to a Web site where schools are able to search the equipment available for transfer, select the items needed, and place the items in a

virtual shopping cart. The system will submit the request to the owning federal agency and the school will be emailed an allocation or a denial.

Although the excess computers are provided at no cost, it is the school's responsibility to either pickup the equipment or pay for the shipping and transportation costs.

### To Register:

Determining eligibility and registering is an easy process for school administrations. The process begins with schools registering at [www.computersforlearning.gov](http://www.computersforlearning.gov).

To obtain further information on Computers for Learning, you may send an email to [computers.learning@gsa.gov](mailto:computers.learning@gsa.gov) or contact our GSA representative:

Christopher M. Willett  
Property Disposal Specialist  
(703) 605-2873  
Fax: (703) 605-9833



# TRAINING AND SEMINARS

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Registrar  
GSA Professional Development and Training Section  
Crystal Park 4, Room 300  
2200 Crystal Drive  
Arlington, VA 22202

**By Email** — Send a fully completed registration form to us at [travel.training@gsa.gov](mailto:travel.training@gsa.gov).

For course scheduling information, please call (703) 605-0555, visit our Web site at [www.gsa.gov/traveltraining](http://www.gsa.gov/traveltraining), or email us at [travel.training@gsa.gov](mailto:travel.training@gsa.gov).

You can also order our FY 2009 Worldwide Travel Training Catalog of classes at [www.gsa.gov/clms](http://www.gsa.gov/clms).

## Special Needs

Employees with special needs who are nominated for training, please call the Travel Training Branch at (703) 605-0555 or email us at [travel.training@gsa.gov](mailto:travel.training@gsa.gov).

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## 1745 – Relocation Allowances: Federal Travel Regulations (FTR) (\$950)

This class explains, in plain language, the allowances provided to eligible civilian employees making a permanent change of duty station. Course content: travel authorizations, advances and vouchers; service agreements; househunting and en route travel; temporary quarters; shipment of household goods/automobiles; property management; real estate expenses; miscellaneous expenses; and last move home. Fast-changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advised.

## 1750 – Relocation Income Tax Allowances (RITA) (\$875)

This course looks at the treatment of reimbursed moving expenses by federal tax regulations. Students learn to distinguish between federal tax regulations and the FTR in reaching correct decisions concerning the Relocation Income Tax (RIT) allowances and its impact on personnel assigned to new duty stations.

Frequent changes in tax laws and regulations make annual training advisable for those who must know how to identify and calculate allowable moving expenses and taxable income. Instructional methods include lectures and discussions. Students should bring hand calculators to class.

## 1755 – Shipping Household Goods and Transportation Management Services Solution (TMSS) Two-Day Course (\$875)

This course examines regulations on household goods and transportation. Students review entitlement and transportation regulations, practice preparing and making shipment, and work with loss and damage claims.

Now included in Shipping Household Goods, information on Transportation Management Service Solution (TMSS) which is the first comprehensive online freight and household goods transportation management system designed exclusively for federal civilian agencies. Demonstration of this dynamic new system will enable GSA customers to effectively and efficiently manage the entire transportation process and execute the following task online: Rate and route shipments, book shipments, generate bills of lading, track and trace shipments, view proof of delivery, perform repayment audits, pay for transportation services, resolve service and billing disputes, file/settle loss and damage claims, generate transportation reports, perform data analysis and facilitate post payment audits.

## 1760 – Temporary Duty Travel Federal Travel Regulation (FTR) (\$824)

This lecture course teaches students how to compute temporary-duty travel allowances and responsibilities concerning: travel authorizations; allowable transportation; Fly America Act; contract city-pair fares; per diem allowances; actual expense; eTravel Service (eTS); government travel charge card; receipt requirements; emergency travel; conference per diem allowance; miscellaneous expenses; and submission of vouchers. Fast-changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advised.

## 1761 – Approving Official Responsibilities: Federal Travel Regulation (On-Site Arrangements Only)

The travel authorizing/approving official or his/her designee (e.g., supervisor of the traveler) must review and sign travel claims to confirm the authorized travel. The reviewing official must have full knowledge of the employee's activities. He/she must ensure that: the claim is properly prepared in accordance with the pertinent regulations and agency procedures; a copy of authorization for travel is provided; the types of expenses claimed are authorized and allowable expenses; the amounts claimed are accurate; and the

# LECTURE COURSES

required receipts, statements, and justifications are attached with the voucher. Course content: travel authorizations; allowable transportation; contract city-pair fares; per diem allowances; actual expense; eTravel Service (eTS); government travel charge card; receipt requirements; miscellaneous expenses; submission of vouchers; and approving official's responsibilities.

For more information, please call the Travel Training Branch at (703) 605-0555, or email us at [travel.training@gsa.gov](mailto:travel.training@gsa.gov).

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## 2060 – Advanced Temporary Duty Travel – Federal Travel Regulation One-Day Course (\$565)

This advanced course provides in-depth discussion of the statute pertaining to travel authorizations and per diem allowances for domestic and foreign travel.

Discussion includes long-term Temporary Duty (TDY) assignments, mandatory use of the contract city-pair fares, and arranging travel services in accordance with FTR amendment 2003-7, eTravel Services, effective January 21, 2004. Additional topics include the mandatory use of the charge card, when conference per diem is allowed, miscellaneous expenses, receipt requirements, and voucher submission. Fast-changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advised.

# DEPARTMENT OF DEFENSE ON-SITE SPECIALS

## 1771 – Approving Official Responsibilities: Joint Federal Regulations, Vol. 2 (On-Site Arrangements Only)

The travel authorizing/approving official or his or her designee (e.g., supervisor of the traveler) must review and sign travel claims to confirm the authorized travel. The reviewing official must have full knowledge of the employee's activities. He or she must ensure that: the claim is properly prepared in accordance with the pertinent regulations and agency procedures; a copy of authorization for travel is provided; the types of expenses claimed are authorized and allowable expenses; the amounts claimed are accurate; and the required receipts, statements, and justifications are attached with the voucher. Course content: travel orders;

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# DEPARTMENT OF DEFENSE OFFERINGS

## 1765 – Temporary Duty Travel: Joint Federal Travel Regulations, Volume 1; (Uniformed Services \$824)

This course teaches students to understand temporary-duty travel allowances and responsibilities for uniform members for the Department of Defense. Topics covered are: travel orders; contract travel office (CTO); allowable transportation; fly America act; contract city-pair fares; per diem allowances; meal allowances; actual expense; government travel charge card; receipt requirements; emergency travel; conference per diem allowance; miscellaneous expenses; and submission of vouchers. Fast-changing updates and streamlining of travel allowances make annual (or even twice yearly) training strongly advised.

## 1770 – Temporary Duty Travel: Joint Travel Regulations (JTR), Volume 2 (\$824)

This course teaches students how to understand temporary-duty travel allowances and responsibilities in accordance with the Joint Travel Regulations, Vol. 2 for civilian employees with the Department of Defense. Topics covered include: travel orders; contract travel office (CTO); allowable transportation; fly America act; contract city-pair fares; per diem allowances; meal allowances; actual expense; government travel charge card; receipt requirements; emergency travel; conference per diem allowance; miscellaneous expenses; and submission of vouchers. Fast-changing updates and streamlining of travel regulations make annual (or even twice yearly) training strongly advised.

## 1775 – Relocation Allowances: Joint Travel Regulations, Volume 2; Three - Day Course (\$950)

This course explains allowances provided to eligible Department of Defense civilian employees making a permanent change of duty station. Course content: travel orders, advances and vouchers, service agreements, house hunting and en route travel, temporary quarters, shipment of household goods/automobiles, property management, real estate expenses, miscellaneous expenses, and last move to home entitlement. Fast changing updates and streamlining of federal travel allowances make annual (or even twice yearly) training strongly advisable.

## 2070 – Advanced Temporary Duty Travel: Joint Travel Regulations (JTR), Volume 2; One-Day Course (\$565)

This course provides in-depth discussion of the statute pertaining to travel orders, per diem allowances for domestic and foreign travel, transportation allowances, mandatory use of the contract airline city-pair fares, Defense Travel Service (DTS, Fly America Act, and the Civilian Board of Contract Appeals Travel Cases). Additional topics include the mandatory use of the charge card, miscellaneous expenses, receipt requirements, and voucher submission. Fast changing updates and streamlining of federal travel allowances make annual or even twice yearly training strongly advisable.

For course schedules, please call (703) 605-0555, visit our Web site at [www.gsa.gov/traveltraining](http://www.gsa.gov/traveltraining), or email us at [travel.training@gsa.gov](mailto:travel.training@gsa.gov).



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## ◀ Multi-Tool Kit

This multi-tool kit contains: a multi-pliers tool (NSN 5110-01-346-5339); six stainless steel screwdriver bits; and a coupler that fits over the cross-tip screwdriver blade in the multi-pliers. The screwdriver bits and the coupler are stored in a rubber bit holder with slots for each of the items; the holder has an extended gripping tab that permits easy bit removal from the sheath. The screwdriver bits are 1/4" hex inserts and consist of three flat-tip bits (in sizes 12-14, 5-6, and 0-1) and three cross-tip bits (in Phillips sizes 1, 2, and 3). Furnished in a black synthetic sheath with a Velcro flap closure, a belt loop, and two pockets (one for the multi-pliers tool and one for the rubber bit holder).

**NSN** 5110-01-385-7354

**Brand** Fiskars Inc.

**P/N** 07510G

**Size** Length: 4-7/8" (closed)

**Price** \$52.28 SE

## Multi-Tool

▼ This tool is the next generation multi-tool. Tool offers two locking knife blades with one-hand access, plus two more locking tools and a more comfortable handle. The tool also comes with needlenose and regular pliers, wire cutters, hard-wire cutters, clip-point knife, serrated knife, diamond-coated file, wood/metal file, wood saw, scissors, extra small, small, medium, large and Phillips screwdrivers, can/bottle opener, wire stripper and lanyard attachment.



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**NSN** 5110-01-456-0578

**Size** Length: 4" closed

**Price** \$66.79 EA



► This new multi-tool includes: titanium handles; needle-nose and regular pliers; wire cutters; hard wire cutters; crimper; saw; 154-cm, clip-point, stainless-steel knife blade; serrated knife; wood/metal file; diamond-coated file; wire stripper; large- and small-bit driver; eight double-end bits (sizes: hex-5/32 and 9/64"; hex 1/8 and 7/64"; hex 3/32 and 5/64"; hex 1/16 and .050"; Robertson #2 and #3; screwdriver 1/8" and Torx #15; Phillips #1 and #2; Phillips and flat-tip eyeglass screwdriver); 8"/19cm ruler; bottle/can opener; fixed lanyard ring; quick-release lanyard ring; and a removable pocket clip.

**Furnished in a leather sheath.**

**NSN** 5110-01-525-6659

**Brand** Leatherman Tool Group

**P/N** 830062

**Size** Length: 4" closed

**Price** \$92.99 EA



## ◀ Gator Serrater Pocket Knife

This multi-purpose single-blade folding knife is made of high carbon stainless steel with a nonglare satin finish on the blade. The 3-3/4" blade has a smooth sharpened edge from the point to approximately the middle of the blade and the balance of the blade has a serrated edge. The knife has a safety feature that pauses the blade halfway through rotation to prevent accidental opening or closing. The handle is rubberized with a non-slip grip that includes a separate contour for the index finger. This provides for a firm and comfortable grip. The blade lock release mechanism is located at the midpoint on the back of the handle and is activated by pushing inward. Provided in a heavy duty synthetic sheath with velcro flap closure and a belt loop. Fiskars, Inc. Gerber GATOR SERRATER p/n 06079 or Colonial Knife Company p/n J316.

**NSN** 5110-01-369-9340

**Size** Length: 8-5/8" (open), 5" (closed)

**Price** \$28.04 EA



## ▲ Cordless Power Tool Set

This six-piece set contains heavy-duty, 18V cordless power tools. Set includes: 1/2" hammerdrill/drill/driver with 500 in.-lbs. of maximum torque; 6-1/2", 16-tooth carbide blade circular saw and a rip fence; reciprocating saw with keyless blade clamp; right-angle drill with 310 in.-lbs. of maximum torque; 6500-RPM high-power cut-off tool; and a hands-free flexible floodlight. Also included: one-hour charger; two-18V batteries; 360-degree side handle; wrench; backing flange; and a three-position side handle. Furnished in a contractor bag. **DD**

**NSN** 5130-01-535-1215

**Price** \$783.38 SE



## ▲ Cordless Drill

Hi-torque 12-volt cordless screwdriver/drill is variable speed and reversible (VSR), has a 16-position pre-selected torque setting, one full lock up setting and a low (0 to 500 rpm) and a high (0 to 1500 rpm) speed selector. The screwdriver/drill has a 3/8" keyed chuck that accepts both round-shank drill bits and hexagonal screwdriver bits. Furnished with two 12-volt removable battery packs, a heavy-duty 120-volt input one-hour battery charger and a set of instructions. The kit comes in a metal or plastic carrying case.

**NSN** 5130-01-284-3063

**Price** \$165.47 EA



## ◀ Pneumatic Impact Wrench

Air-powered, portable, titanium impact wrench loosens and tightens bolts and nuts. Has built-in power regulator for control of power output. The wrench has a pistol-grip handle and is reversible. Operating pressure is 80-100 psig. Furnished with operating and maintenance instructions.

Wrench has a 3/4" square drive with a 2" maximum spindle offset. Air inlet connection is 3/8" NPT or NPTF. Air consumption while impacting: 50 CFM maximum. Torque developed after 5 seconds impacting: 750 ft.-lbs. minimum.

**NSN** 5130-00-184-1427

**Price** \$1,185.56 EA



## ▲ Disk Sander

Right-angle air sander for medium- and heavy-duty sanding, deburring, blending, smoothing and brushing operations. No-load speed is 6000 rpm. Sander has lever throttle and auxiliary side handle. 1/4" female NPT or NPTF air inlet connection. The spindle has a 5/8-11 UNC-2A thread for mounting the sanding pad. Operating pressure is 90 psig. Pad diameter is 7". The angle height over the spindle is 4.5" maximum. Furnished with parts list and instruction manual. **PRIME**

**NSN** 5130-00-596-1176

**Price** \$244.78 EA

## ▶ Circular Saw

Portable electric circular saw. Features adjustable metal base for depth and angle of cut adjustment, adjustable rip fence, position indicator, round arbor, dust blower, trigger switch in a comfortable handle and antikick-back clutch. Saw operates on 120V AC/DC. Furnished in a carrying case with one blade, arbor nut wrenches and operating instructions. **PRIME**

Motor armature axis is parallel to blade spindle axis. Has a minimum 3800 no-load rpm, a rated current of 15 amp and 5/8" diameter arbor hole. Minimum cut at 90° is 3-3/8"; maximum cut at 45° is 2-1/4". Blade diameter: 10 to 10-1/4".

Electromagnetic Interference-Suppressed tool. (Only the basic tool prior to modification for EMI suppression is required to have proof certifying compliance with the applicable UL Standard.)

**NSN** 5130-00-889-8991

**Price** \$650.95 EA



The brand names you know,  
the simplified ordering process you trust –  
all from GSA Global Supply™.



## ▲ Special-Use Box

Each corrugated, fiberboard box features lapped joints secured by wire stitching. This lock-bottom box includes hand holes and has a bursting strength of 275 psi. **DD** **CPG** **AbilityOne**

Use exclusively for retiring, storing and shipping paper files to the Federal Archives and Records Center.

♻ 40% Postconsumer Material

**NSN** 8115-00-117-8249

**Color** White

**Size** 14-3/4 x 12 x 9-1/2"

**Price** \$44.25 BD(contains 25 EA)



## ▲ Storage/Filing Box

Sturdy corrugated box holds letter- and legal-size files at the same time, and it features 25-percent greater letter size capacity than standard 24" boxes. Stores up to 24" of legal size or 30" of letter size files. Partial side can be folded to create letter/legal file box divider. Easy FastFold™ one-step set-up saves assembly time. Deep, locking, lift-off lid stays in place for secure file storage. Stacking strength is the amount of evenly distributed weight that can be safely stacked on top of a box.

♻ 35% Postconsumer Material

**NSN** OS1-P50337501

**Brand** Bankers Box

**P/N** P50337501

**Color** White/Blue

**Size** 15" W x 10" H x 24" D

**Price** \$5.91 EA



## ▲ BinderBox Storage Box

Maximum strength specialty box is an innovative storage solution for binders. Specially designed to hold most binder sizes up to 3"; holds eight 1-1/2" binders. FastFold assembly allows set up in seconds. Construction: 3-ply end x 2-ply side x 2-ply bottom. Lift-off lid locks into place for higher security storage. Reinforced tote handles. 850 Lbs. stacking weight. 59% post-consumer content.

♻ 59% Postconsumer Material

**NSN** OS1-P50073301

**Brand** Bankers Box

**P/N** P50073301

**Color** White/Blue

**Size** 12-1/4"W x 12" H x 18-1/2" D

**Price** \$92.16 CT(contains 12 EA)



## ▲ Stor/File Storage Box

Stor/File S/S Storage Boxes seal tight for shipping or securing files, and then convert to a reusable box!. Extra strength. Strong adhesive strip is durable enough for shipping and prevents tampering. Easy to open; just pull tab to access box contents. Shipping lid tears off to reveal folding box lid for instant storage. Construction: 2-ply end x 1-ply side x 2-ply bottom. Reinforced tote handles. 500 lbs. stacking weight. 59% post-consumer content.

♻ 59% Postconsumer Material

**NSN** OS1-P50007101

**Brand** Bankers Box

**P/N** P50007101

**Color** White/Blue

**Size** 15" W x 10" H x 12" D

**Price** \$84.88 CT(contains 12 EA)

## ► Packaging Tape

Weather- and water-resistant tape sports a flat, paper backing. Useful for closing and sealing fiberboard containers. Has a 3" core. **PRIME** **AbilityOne**

Ⓜ 12-month maximum shelf life (extendable)

**NSN** 7510-00-297-6655



**Color** Opaque

**Size** Width: 2"

**Price** \$10.16 RO(contains 120 YD)



## ► Slant D-Ring Binder

Slant D-ring binder includes a clear overlay on front, spine and back cover. Pockets on inside covers. Accommodates 8-1/2 x 11" sheets.  

 Contains 25% Recovered Material

**NSN** 7510-01-384-8786

**Color** White

**Size** Capacity: 1"

**Price** \$3.62 EA

**NSN** 7510-01-384-8788

**Color** White

**Size** Capacity: 2"

**Price** \$4.28 EA

**NSN** 7510-01-385-6711

**Color** White

**Size** Capacity: 1-1/2"

**Price** \$3.88 EA

**NSN** 7510-01-384-8673

**Color** White

**Size** Capacity: 2-1/2"

**Price** \$4.52 EA

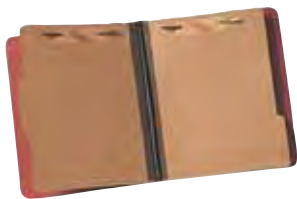


**NSN** 7510-01-368-3486

**Color** White

**Size** Capacity: 3"



**Price** \$5.23 EA



## ▲ Classification Folder

Features two 217-lb. kraft inner dividers with 1/3-cut self-tabs. Six two-prong fasteners are located at the top on inside of covers and on both sides of inner dividers. Expands to 2". Compressors not included.

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

**NSN** 7530-00-990-8884  

**Color** Red

**Size** Letter Size

**Price** \$2.22 EA

**NSN** 7530-01-011-9454 



**Color** Red

**Size** Legal Size

**Price** \$2.91 EA



## ▲ Double-Pocket Report Cover

Double-pocket presentation portfolio handily accommodates supporting materials, including samples, forms or reference materials. Made of coated, leather-grained paper stock. Each pocket is 5" deep x 9-1/2" wide and has a 3/8" capacity for 8-1/2 x 11" paper.  

 30% Postconsumer Material

**NSN** 7510-00-584-2490

**Color** Light Blue

**Size** 11-1/2 x 9-1/2"

**Price** \$10.51 BX(contains 25 EA)

**NSN** 7510-00-584-2491

**Color** Gray

**Size** 11-1/2 x 9-1/2"

**Price** \$10.51 BX(contains 25 EA)

**NSN** 7510-00-584-2489

**Color** Dark Blue

**Size** 11-1/2 x 9-1/2"

**Price** \$10.51 BX(contains 25 EA)

**NSN** 7510-00-584-2492

**Color** Tan

**Size** 11-1/2 x 9-1/2"

**Price** \$10.51 BX(contains 25 EA)

## ► Self-Stick Notes

Self-stick notes use adhesive on the back which allows each sheet to be attached to almost any surface and removed without leaving a mark. Each pad contains 100 sheets.

Notes are unruled.

- ① 12-month maximum shelf life (extendable)
- ♻️ 30% Recovered Material, Which Includes 30% Postconsumer Material



**NSN** 7530-01-116-7866 **CPG** **SKILCRAFT** **AbilityOne**  
**Color** Yellow  
**Size** 1-1/2 x 2"  
**Price** \$8.99 DZ

**NSN** 7530-01-207-4356 **CPG** **SKILCRAFT** **AbilityOne**  
**Color** Yellow  
**Size** 2 x 3"  
**Price** \$7.81 DZ

**NSN** 7530-01-207-4354 **CPG** **SKILCRAFT** **AbilityOne**  
**Color** Blue  
**Size** 2 x 3"  
**Price** \$7.09 DZ

**NSN** 7530-01-207-4355 **CPG** **SKILCRAFT** **AbilityOne**  
**Color** Green  
**Size** 2 x 3"  
**Price** \$7.09 DZ

**NSN** 7530-01-207-4353 **DD** **CPG** **SKILCRAFT** **AbilityOne**  
**Color** Pink  
**Size** 2 x 3"  
**Price** \$7.74 DZ

**NSN** 7530-01-116-7867 **CPG** **SKILCRAFT** **AbilityOne**  
**Color** Yellow  
**Size** 3 x 3"  
**Price** \$14.99 DZ

**NSN** 7530-01-116-7865 **CPG** **SKILCRAFT** **AbilityOne**  
**Color** Yellow  
**Size** 3 x 5"  
**Price** \$12.88 DZ

**NSN** 7530-01-285-8355 **CPG**  
**Color** Yellow  
**Size** 4 x 6"  
**Price** \$12.90 DZ

The AbilityOne Program  
is the single largest U.S. employer  
of people who are blind or severely disabled.



## ◀ Lined Writing Pad

This memorandum pad is bound on top and contains 100 sheets of 16-lb. basis weight paper.   

**Sheets are ruled on both sides with blue lines that are spaced 5/16" apart.**

 Contains 50% Recovered Material, Which Includes 30% Postconsumer Material

**NSN** 7530-01-124-7632

**Color** Yellow

**Size** 8-1/2 x 14"

**Price** \$17.70 DZ

## ▶ Single-Part Computer Paper

Continuous, flat-fold computer paper features holes punched on both margins for smooth sprocket feed. 

**Has a 20-lb. basis weight. Has three horizontal lines per inch, with the third line printed darker. Does not have vertical margin perforations.**

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

**NSN** 7530-00-145-0414

**Color** White

**Size** 14-7/8 x 11"

**Price** \$45.23 BX(contains 2500 SH)



## ◀ 100% Post-Consumer Paper

This product meets the need for an environmentally friendly paper, while delivering reliable, high quality performance. This minimum of 92 brightness paper is excellent for daily use in copiers and printers. Processed chlorine free (PCF) without additional bleaching. Both paper and packaging are recyclable with general office waste. Paper has a 20-lb. basis weight.



 100% Postconsumer Material

**NSN** 7530-01-503-8441

**Color** White

**Size** 8-1/2 x 11"

**Price** \$61.38 BX(contains 5000 SH)



ASPEN 100 is a 100-percent-recycled, multi-use, premium paper made without the use of chlorine or chlorine compounds (PCF), and it is engineered for use in copiers and printers. Acid-free paper features a 92 brightness.

 100% Postconsumer Material

**NSN** OS1-P1054922

**Brand** Boise

**P/N** P1054922

**Color** White

**Size** 8-1/2" x 11"

**Price** \$4.17 RM

**NSN** OS1-P1054925

**Brand** Boise

**P/N** P1054925

**Color** White

**Size** 11" x 17"

**Price** \$9.80 RM



## 50% Recycled Paper

► Aspen 50 copier paper has the same hardworking characteristics and brightness as non-recycled sheets. It is high-performing with excellent runnability. Engineered for use in high-speed copiers, printers, and plain-paper fax machines, this acid-free paper has a 20-lb. basis weight and 92 brightness. Complies with the National Defense Authorization Act of 1998 and AFI 64-117, AF Government-Wide Purchase Card (GPC) program guidelines 2.10.4. **DD**

♻️ 50% Postconsumer Material

**NSN** 7530-01-555-2904

**Brand** Boise

**P/N** 055011CTN

**Color** White

**Size** 8-1/2 x 11"

**Price** \$40.55 BX(contains 10 RM)

**NSN** 7530-01-555-2911

**Brand** Boise

**P/N** 055011

**Color** White

**Size** 8-1/2 x 11"

**Price** \$4.06 RM



## ▲ Copier Paper

Guaranteed hassle-free performance in copiers, laser and inkjet printers, plain paper fax machines and multifunction machines. This 92 bright paper provides excellent print contrast. Designed to stay flat and not curl. Perfect for correspondence, as well as presentations. Paper has a 20-lb. basis weight. **CPG**

**Sheets are not hole-punched.**

♻️ Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

**NSN** 7530-01-335-2623

**Color** White

**Size** 8-1/2 x 11"

**Price** \$41.91 BX(contains 10 RM)

**NSN** 7530-01-334-7817

**Color** White

**Size** 8-1/2 x 14"

**Price** \$56.22 BX(contains 10 RM)



## ▲ Watermarked Copier Paper

High-quality, sulfite-watermarked, dual-purpose paper ensures maximum reliability and copy quality. For use in dry toner equipment. **CPG** **AbilityOne**

**U.S. Federal Seal watermark. Has a 20-lb. basis weight.**

♻️ Contains 50% Recovered Material, Which Includes 30% Postconsumer Material

**NSN** 7530-01-200-2203



**Color** White


**Size** 8-1/2 x 11"

**Price** \$76.01 BX(contains 10 RM)



## ◀ Easel Pad

This paper pad ideal for a variety of situations including lectures, demonstrations, training sessions and conferences. Can be used with crayons, graphite pencils, or quick-drying markers. Can be used on easel or hung on wall. Pad is perforated at the top for easy tear-off and features two holes, spaced 17-1/2" apart for mounting. Has a sturdy cardboard backing.  

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

**Paper is unruled.**

**NSN** 7530-00-619-8880

**Color** White

**Size** 27 x 34"

**Price** \$10.94 PD(contains 50 SH)

**Paper is ruled.**

**NSN** 7530-01-398-2661

**Color** White

**Size** 27 x 34"

**Price** \$10.94 PD(contains 50 SH)


## Paper Towels






▲ Heavyweight paper towels are designed for use in bathroom dispensers.

**These Navy Pack single-fold towels are 99 square inches overall. Fold depth: 5-1/2".**

For use with paper towel dispenser NSN 4510-00-224-8549.

 Contains 40% Recovered Material, Which Includes 40% Postconsumer Material


**NSN** 8540-01-055-6134   


**Size** 9-1/4"W

**Price** \$40.31 BX(contains 4400 EA)

**Wide, multi-fold towels are 85 square inches overall. Fold depth: 3-1/8".**

For use with paper towel dispenser NSN 4510-00-224-8549.

 Contains 40% Recovered Material, Which Includes 40% Postconsumer Material

**NSN** 8540-00-291-0389 


**Size** 9-1/4"W



**Price** \$20.48 BX(contains 4400 EA)

► Disposable wiping cloth for cleaning, polishing, and wiping surfaces that are wet, dry or oily. Not intended for use on transparent plastic.

**With a 11-lb. basis weight, this towel absorbs up to 275% of its weight in water and up to 150% of its weight in oil.**

Box contains 18 packages of 140 towels for a total of 2,520.

 Contains 55% Recovered Material, Which Includes 40% Postconsumer Material

**NSN** 7920-00-543-6492  

**Color** White or Natural

**Size** 15-1/4" x 16-1/2"



**Price** \$51.37 BX(contains 2520 EA)

**Multi-ply towel is reinforced with nylon fibers, making it suitable for cleaning up oil and water. Each banded package holds 100 towels. (Box holds 10 packages, equaling 1,000 towels).**

93% biodegradable.

 Biodegradable per EPA/OECD test methods

 Contains 55% Recovered Material, Which Includes 40% Postconsumer Material


**NSN** 7920-00-823-9773  

**Color** White or Natural

**Size** 13-1/2 x 13-1/2"

**Price** \$54.28 MX

 Biodegradable per EPA/OECD test methods

**NSN** 7920-00-823-9772 

**Color** White or Natural

**Size** 13-1/2 x 16-1/2"


**Price** \$61.36 MX





## ◀ Toilet Paper

Toilet tissue consists of 4 x 4" perforated sheets wound around a core. Uncompressed rolls are individually wrapped.  

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

### Single-ply.

Basis weight: 10- lbs. (NFES #0142)

**NSN** 8540-00-530-3770

**Color** White

**Size** Length: 4,800"

**Price** \$61.73 BX(contains 96 EA)

### Two-ply.

Basis weight: 17 lbs.

**NSN** 8540-01-380-0690

**Color** White

**Size** Length: 2,200"

**Price** \$53.42 BX(contains 96 EA)



## ▲ Facial Tissue

Soft, absorbent tissue comes in folded, two-ply sheets.  

 Contains 10% Recovered Material, Which Includes 10% Postconsumer Material

Unit of issue contains six boxes of 200 tissues each.

**NSN** 8540-00-281-8360

**Color** White

**Size** 66 sq. in.

**Price** \$12.99 PG(contains 6 EA)

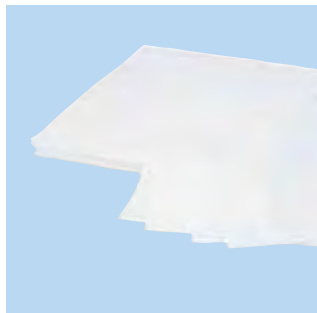
Unit of issue contains 12 boxes of 100 tissues each.

**NSN** 8540-00-793-5425

**Color** White

**Size** 66 sq. in.

**Price** \$8.66 PG(contains 12 EA)



## ▲ Table Napkins

Standard paper napkin is ideal for general table or hospital use.  

This single-ply napkin is used with table napkin dispenser NSN 7350-00-205-0928.

 Contains 30% Recovered Material, Which Includes 30% Postconsumer Material

**NSN** 8540-00-285-7001



**Color** White

**Size** Unfolded: 130 sq. in.

**Price** \$77.99 BX(contains 10000 EA)



## ▼ Machinery Wiping Cloth

These heavy-duty, non-woven wiping cloths feature soft, absorbent cellulose layers sandwiched between layers of non-interlaced rayon fibers. Both the base material and the reinforcement fibers decompose in landfills and salt water, making them environment-friendly and decomposable. Also, because the fibers are not interlaced, they will not pose a hazard to wildlife before decomposing. Base cloth is made from recycled material.  

 80% Recycled

 Biodegradable per EPA/OECD test methods

**NSN** 7920-01-370-1364

**Size** 10 x 16-1/2"

**Price** \$26.00 BX(contains 400 EA)

**NSN** 7920-01-370-1365

**Size** 13-1/4 x 16-1/2"

**Price** \$32.49 BX(contains 400 EA)



## ◀ Dishwashing Detergent

Solitaire is a concentrated solid detergent that dissolves greasy, heavy soils. Can be used in hard or soft water and is gentle on hands. Safe for cleaning all types of dishes, glassware, pots, pans and silverware. For use with the Ecolab Solitaire Dispenser. **MSDS**

**Box contains 4, 5-lb. capsules.**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; No Hazardous Waste; Nontoxic Item; Biodegradable per EPA/OECD test methods; Carcinogen Free

**NSN** 7930-01-177-5119

**P/N** Solitaire P/N 17301 or equal

**Price** \$127.54 BX(contains 4 EA)

## ▶ Glass Cleaner

BioRenewable ready to use glass cleaner contains 81% biobased material. Use for cleaning windows, mirrors, glass and plexiglass. Contains no ammonia.

**DD MSDS** **AbilityOne**

**Box contains 12, (32-oz.) containers and 12 trigger sprayers.**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Bio-based

**NSN** 7930-01-555-2898

**Size** 1 qt.

**Price** \$38.34 BX(contains 12 EA)

BioRenewable concentrated glass cleaner contains 81% biobased material. Use to clean and polish any hard surface not harmed by water such as window glass, panes and sills, mirrors, countertops, chrome, automobile glass, fluorescent lights and tubing and any glass or mirror finish. Removes tough stains such as grease, smoke, oils, tape residue, food stains, dust and dirt. Contains no ammonia. For general cleaning use 2 ounces per gallon of cold water. Not for use on wood furniture or other polished surfaces. (Do not mix with other chemicals.) **DD MSDS** **AbilityOne**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Bio-based

**NSN** 7930-01-555-3384

**Size** 1 gal.

**Price** \$52.98 BX(contains 4 EA)



## ▶ Bathroom Cleaner

BioRenewable bathroom cleaner contains 83% biobased material. Efficient cleaning action quickly removes soap scum in showers, shower rooms (floors & walls), toilets, urinals, porcelain, ceramic, fiberglass and similar hard, non-porous surfaces. For general, light duty restroom cleaning, dilute 12 ounces into one gallon of water. Rinse thoroughly. Do not use on non-acid resistant surfaces. **DD MSDS** **AbilityOne**

**Box contains 12, (32-oz.) containers and one foam sprayer.**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Bio-based

**NSN** 7930-01-555-2900

**Size** 1 qt.

**Price** \$57.60 BX(contains 12 EA)

## ▶ Multi-Purpose Cleaner

BioRenewable TriBase multi-purpose cleaner contains 72% biobased material. Use to clean glass, mirrors, floors, walls, restroom and kitchen surfaces and tile. Cleans any surface not damaged by water. Apply with mop, brush, pressure washer or use as a spray and wipe cleaner.

**DD MSDS** **AbilityOne**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Bio-based

**NSN** 7930-01-555-2901

**Size** 1 gal.

**Price** \$55.21 BX(contains 4 EA)





## ◀ Industrial Degreaser

BioRenewable industrial degreaser contains 53% biobased material. Removes grease, dirt, cosmoline, tar, many inks and most adhesives and industrial oil. Safe to use on ferrous and non-ferrous metal, concrete, ceramic tile and brick. Degreaser is not recommended for use on floors coated with a floor finish, but is safe to use on floors with cured epoxies and urethanes. Do not use to degrease concrete floors prior to resurfacing. Use with solvent resistant sprayer, faucets, pumps or use for parts tank. **DD MSDS** **AbilityOne**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Bio-based

**NSN** 7930-01-555-2897

**Price** \$138.53 CN(contains 5 GL)

## ▶ Graffiti Remover SAC

BioRenewable ready-to-use graffiti remover contains 53% biobased material. Works against marks and stains. Removes typical graffiti markings, paint, marker, ink, crayon and pencil. Takes away scuff marks, wax residue and adhesives. Generally applied with solvent resistant sprayer, sponge, brush or cloth. **DD MSDS** **AbilityOne**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Bio-based

**NSN** 7930-01-555-2899

**Size** 1 gal.

**Price** \$138.49 BX(contains 4 GL)



**Box contains 12, (32-oz.) containers and three solvent resistant sprayers.**

① 24-month maximum shelf life (extendable)

🌱 Low-VOC Item; Bio-based

**NSN** 7930-01-555-3382

**Size** 32 oz., bottle

**Price** \$114.31 BX(contains 12 EA)



## ◀ Multi-Purpose Germicidal Cleaner

Biodegradable industrial strength cleaner and disinfectant quickly cuts greasy, grimy soils, light rust, oil and tar. Kills HIV-1 (AIDS virus), bacteria, salmonella and fungi. Multi-purpose spray is perfect for cleaning, degreasing and disinfecting a wide variety of hard surfaces. Also destroys bacterial odors. Non-flammable, ready-to-use and harmless to most hard surfaces. **MSDS**

🌱 Low-VOC Item; Nontoxic Item; Biodegradable per EPA/OECD test methods; EPA registered (applicable to disinfectants and pesticides per FIFRA)

**NSN** 7930-01-346-5283

**P/N** 26801 or equal

**Size** 1 gal.

**Price** \$61.92 BX(contains 6 EA)

**Comes in a pump spray bottle.**

**NSN** 7930-01-177-0795

**P/N** 26824 or equal

**Size** 24 oz. bottle

**Price** \$35.89 BX(contains 12 EA)

**Comes in a trigger spray bottle.**

**NSN** 7930-01-393-6747

**P/N** 26825 or equal

**Size** 25 oz. bottle

**Price** \$41.11 BX(contains 12 EA)

## ► All-Purpose Cleaner

Power Green is a biodegradable, nonabrasive, nonflammable and pH balanced cleaner/degreaser. It safely removes grease, oil and dirt while meeting today's safety and environmental standards. This multi-purpose cleaner/degreaser easily cuts most greases, oils, tar and dirt from bare and painted surfaces. It is safe for cleaning woodwork, furniture, kitchen appliances and bathroom fixtures. It cleans and freshens naturally and economically.



**DD MSDS** 

① 36-month maximum shelf life (extendable)

 Low-VOC Item; Biodegradable per EPA/OECD test methods

**NSN** 7930-01-373-8849

**Size** 22 oz trigger spray bottle

**Price** \$161.52 BX(contains 24 EA)

## ► Glass Cleaner

Fast-drying formula contains ammonia. Cleans, polishes and leaves a sparkling shine on glass, windows, mirrors and chrome. Also cleans plastic, ceramic and vinyl tile, painted surfaces, appliances and stainless steel and other non-porous materials.



**MSDS** 

**Comes in a spray-pump container.**

① 36-month maximum shelf life (extendable)

 Low-VOC Item; Nontoxic Item

**NSN** 7930-01-326-8110

**Size** 16 oz., bottle

**Price** \$21.17 DZ



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## ◀ Drip Pan

Superflex drip pans are made of double fiber woven reinforced rubber for maximum strength and durability. Drip pan is crack and crush-proof. Oil resistant polyethylene resin, Molybdenum disulfide coated.

♻️ 100% Recycled

**NSN** 4940-01-490-2455

**P/N** 48511 or equal

**Size** Capacity: 3 gallon; 17-1/2" diameter

**Price** \$130.85 PG(contains 10 EA)

**NSN** 4940-01-490-2463

**P/N** 48512 or equal

**Size** Capacity: 6-1/2 gal.; 14" diameter

**Price** \$269.56 PG(contains 10 EA)

**NSN** 4940-01-490-2470

**P/N** 48513 or equal

**Size** Capacity: 15 gal.; 26-1/4" diameter

**Price** \$322.32 PG(contains 10 EA)

## ▶ Drip Pan With Chain

Superflex drip pans are made of double fiber woven reinforced rubber for maximum strength and durability. Drip pan is crack and crush-proof. Oil resistant polyethylene resin, Molybdenum disulfide coated.

**Includes a 6 foot chain with eyelet for attaching pan to equipment.**

♻️ 100% Recycled



**NSN** 4940-01-504-5270

**P/N** 101019 or equal

**Size** Capacity: 3 gal.; 17-1/2" diameter

**Price** \$197.77 PG(contains 10 EA)

**NSN** 4940-01-504-5273

**P/N** 101020 or equal

**Size** Capacity: 6-1/2 gal.; 14" diameter

**Price** \$348.63 PG(contains 10 EA)

**NSN** 4940-01-505-0680

**P/N** 48554 or equal

**Size** Capacity: 15 gal.; 26-1/4" diameter

**Price** \$418.99 PG(contains 10 EA)



## ◀ Drip Pan, Aircraft

Superflex drip pans are made of double fiber woven reinforced rubber for maximum strength and durability. Drip pan is crack and crush-proof. Oil resistant polyethylene resin, Molybdenum disulfide coated.

**Interlocking containment pan 36 x 36", which can also be adjusted to 18 x 36". Pan has a three inch lip and interlocking sides. For aircraft and motor pool use.**

♻️ 100% Recycled

**NSN** 4940-01-535-7654

**Brand** DK Enterprise

**P/N** 200550

**Size** 36"L x 36"W x 2"H

**Price** \$714.86 PG(contains 10 EA)



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